Ontario Road Safety Annual Report

1999

107954

101-06899/

'99 Ontario Road Safety Annual Report

Cette publication technique n'est disponible qu'en anglais.

Copies of this document can be obtained from:

Publications Ontario
880 Bay Street
Toronto, Ontario
M7A 1N8

Telephone (416) 326-5300
Toll-free 1-800-668-9938
TTY 1-800-268-7095

If you are seeking information on how to reduce your risk of being in a collision, visit your local Ministry of Transportation (MTO) office for the latest copy of the Official Driver's Handbook, call General Publishing at 1-800-387-0141 or (416) 445-3333 or the Ministry of Transportation web site at http://www.mto.gov.on.ca. For all other driver manuals and leaflets, call (416) 235-3473 or, for MTO information, call 1-800-268-4686. In addition, you may wish to borrow a road safety video from the Ontario Safety League at (416) 620-1720.

Many of the Ministry's publications are available at automotive retail outlets and book stores.

For more information on the data in this publication, please contact the Road Safety Program Office at (416) 235-3585.

Produced by:
Road Safety Program Office
Road User Safety Branch
Ministry of Transportation
1201 Wilson Avenue
Building A, Main Floor, Room 212
Toronto, Ontario
M3M 1J8

Phone: (416) 235-3585
Fax: (416) 235-3633

ISSN # 0832-8269

Table of Contents - 1999

			Page
	Contents		ii
	List of Tables and Figures		iii
Section	1	Overview	1
	1a	Synopsis	2
	1b	Selected Characteristics of Motor Vehicle Collisions	3
	1c	Health Perspective	4
Section	2	The People	5
	2a	People in Collisions	6
		Persons Killed and Injured	6
		Drivers	9
		Alcohol	9
		Driver Action	11
		Seat Belts and Child Restraints	11
		Pedestrians	13
	2b	Putting the People in Context	14
		Fatality and Injury Rates	14
		Driver Population	14
Section	3	The Collision	21
	3a	Types of Collisions	22
		Collision Classes and Rates	22
	3b	Time and Environment	25
	3c	The Collision Location	28
Section	4	Place of Collision in Ontario	31
		Geographical Location-Estimated Population, Collision Information & Vehicle Registrations	32
Section	5	The Vehicle	45
	5a	Vehicles in Collisions	46
		Vehicle Type	46
		Condition, Model Year	47
		Insurance Status	48
	5b	Putting the Vehicle in Context	49
		Vehicle Population	49
		Damage Level	50
Section	6	Vehicles of Special Interest	51
	6a	Motorcycles	52
	6b	School Vehicles	53
	6c	Trucks	54
	6d	Off-Road Vehicles	55
	6e	Motorized Snow Vehicles	56
	6f	Bicycles	57
Section	7	Conviction, Offence and Suspension Data	59
	7a	Conviction Data	60
	7b	Offence and Suspension Data	61
Section	8	Appendix	63
	8a	Glossary	63
	8b	Acknowledgements	66

List of Tables and Figures - 1999

Table	Title	Page
2.1	Category of Involved Person by Severity of Injury in Fatal and Personal Injury Collisions	6
2.2	Category of Persons Killed by Age Groups	7
2.3	Category of Persons Injured by Age Groups	8
2.4	Sex of Driver by Class of Collision	9
2.5	Driver Condition by Class of Collision	9
2.6	Driver Age by Driver Condition in all Collisions	10
2.7	Recorded Driver Condition in Drivers Killed	10
2.8	Apparent Driver Action by Class of Collision	11
2.9	Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Collisions	11
2.10	Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Collisions	12
2.11	Restraint Use for Children (0 - 4 Years) Killed in Collisions, 1995 - 1999	12
2.12	Restraint Use for Children (0 - 4 Years) Involved in Fatal and Personal Injury Collisions by Severity of Injury	12
2.13	Pedestrian Condition by Severity of Injury	13
2.14	Apparent Pedestrian Action by Severity of Injury	13
2.15	Category of Persons Killed and Injured, 1988 - 1999	14
2.16	Sex of Driver Population by Age Groups	14
2.17	Driver Population Age Groups, 1988 - 1999	14
2.18	Driver Licence Class by Sex	15
2.19	Licensed Drivers, Total Collisions, Persons Killed and Injured, 1931 - 1999	17
2.20	Driver Age Groups - Number Licensed, Collision Involvement and Per Cent Involved in Collisions	19
3.1	Class of Collision, 1988 - 1999	22
3.2	Collision Rate Per One Million Kilometres Traveled, 1988 - 1999	22
3.3	Motor Vehicles Involved in Collisions Based on Initial Impact	23
3.4	Initial Impact Type by Class of Collision	24
3.5	Month of Occurrence by Class of Collision	25
3.6	Day of Week by Class of Collision	25
3.7	Hour of Occurrence by Class of Collision	26
3.8	Statutory Holidays, Holiday Weekends - Fatal Collisions, Persons Killed and Persons Injured	27
3.9	Light Condition by Class of Collision	27
3.10	Visibility by Class of Collision	27
3.11	Road Jurisdiction by Class of Collision	28
3.12	Road Jurisdiction for All Collisions, 1988 - 1999	28
3.13	Collision Location by Class of Collision	29
3.14	Road Surface Condition by Class of Collision	29
4.1	Place of Collision - Estimated Population, Class of Collision, Persons Killed, Injured & Vehicle Registrations	32
5.1	Vehicles Involved in Collisions	46
5.2	Condition of Vehicle by Class of Collision	47
5.3	Model Year of Vehicle by Class of Collision	47
5.4	Insurance Status of Vehicle by Class of Collision	48
5.5	Vehicle Population by Type of Vehicle	49
5.6	Selected Types of Vehicles by Model Year	49
5.7	Vehicle Damage Level	50

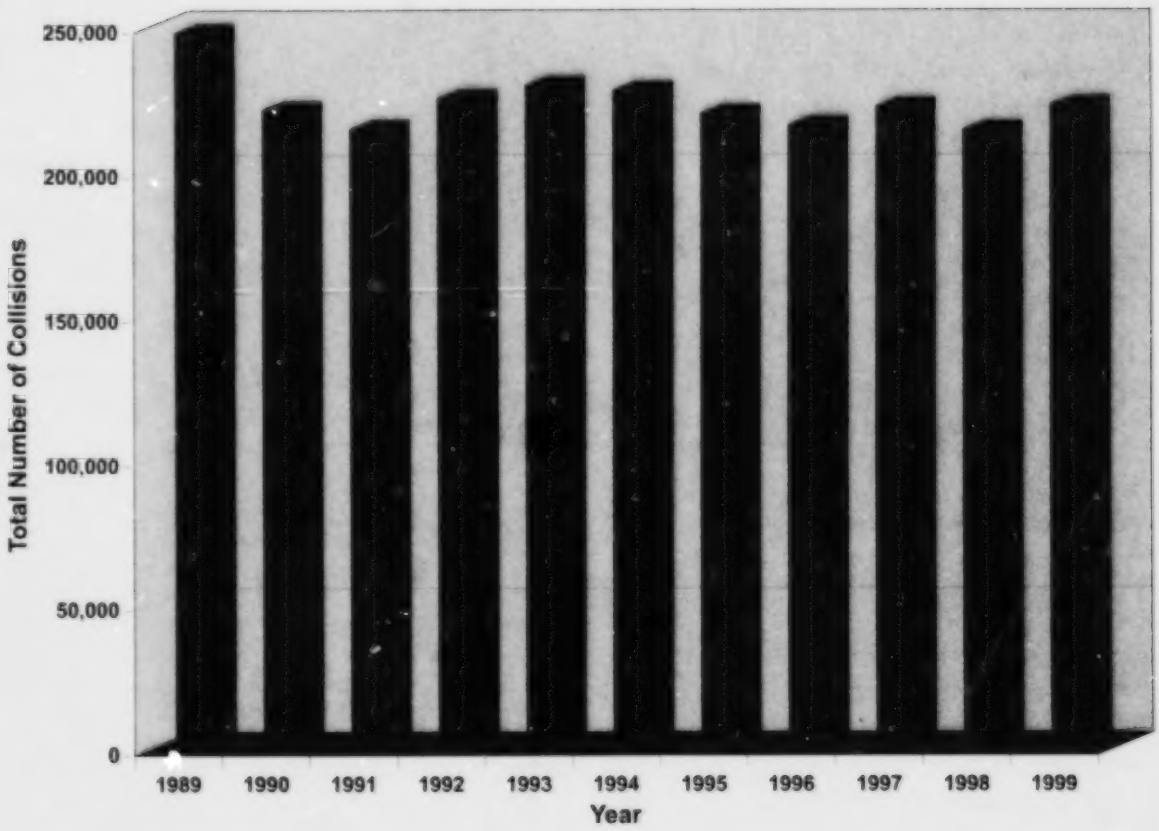
List of Tables and Figures (cont'd)

		Page
6.1	Motorcyclists Killed and Injured, 1995 -1999	52
6.2	Selected Factors Relevant to Fatal Motorcycle Collisions	52
6.3	Pupils Transported Daily, Total Collisions and Injury Rate per 100,000 Pupils - School Years 1994/95 - 1998/99	53
6.4	School Vehicle Type by Nature of Collision, 1998/99	53
6.5	Pupil Injury by Collision Event and Vehicle Type, 1998/99	53
6.6	Number of Trucks Involved in Collisions, 1995 -1999	54
6.7	Driver Licence Class Required by Class of Truck Collision - Number of Trucks	54
6.8	Driver Licence Class Required, Trucks, Registered Trucks and Collision Rate	54
6.9	Selected Factors Relevant to Fatal Truck Collisions	54
6.10	Collision Location by Off-Road Vehicle Drivers Killed and Injured, 1995 -1999	55
6.11	Collision Location by Off-Road Vehicle Passengers Killed and Injured, 1995 -1999	55
6.12	Registered Off-Road Vehicles, 1995 -1999	55
6.13	Selected Factors Relevant to All Off-Road Vehicle Collisions	55
6.14	Collision Location by Motorized Snow Vehicle Drivers Killed and Injured - Riding Seasons 1994/95 - 1998/99	56
6.15	Collision Location by Motorized Snow Vehicle Passengers Killed and Injured - Riding Seasons 1994/95 - 1998/99	56
6.16	Registered Motorized Snow Vehicles, 1995 - 1999	56
6.17	All Motorized Snow Vehicle Collisions, 1998/99	56
6.18	Bicyclists Killed and Injured, 1995 - 1999	57
6.19	Age of Bicyclist Involved in Collisions by Light Condition	57
6.20	Selected Factors Relevant to All Bicycle Collisions	57
7.1	Summary of Motor Vehicle Related Convictions	60
7.2	Motor Vehicle Convictions Related to the Highway Traffic Act	60
7.3	Motor Vehicle Convictions Related to the Criminal Code	60
7.4	Number of Convicted Drivers with Criminal Code of Canada Offences,1994 to 1998	61
7.5	Administrative Driver Licence Suspensions by Month Issued	61
7.6	Demerit Point Suspensions by Driver Age	62

Figure	Title	
1	Total Number of Collisions in Ontario, 1989 - 1999	1
1b	Per Cent of Hospital Admissions by Injury Type	3
2	Per Cent of Involved Persons in Collisions by Severity of Injury	5
3	Collision Rate Per One Million Kilometres Traveled in Ontario, 1989 - 1999	21
5	Vehicle Population by Vehicle Class in Ontario, 1999	45
7	Per Cent of Motor Vehicle Related Convictions in Ontario, 1999	59

1 Overview

Total Number of Collisions in Ontario, 1989 to 1999



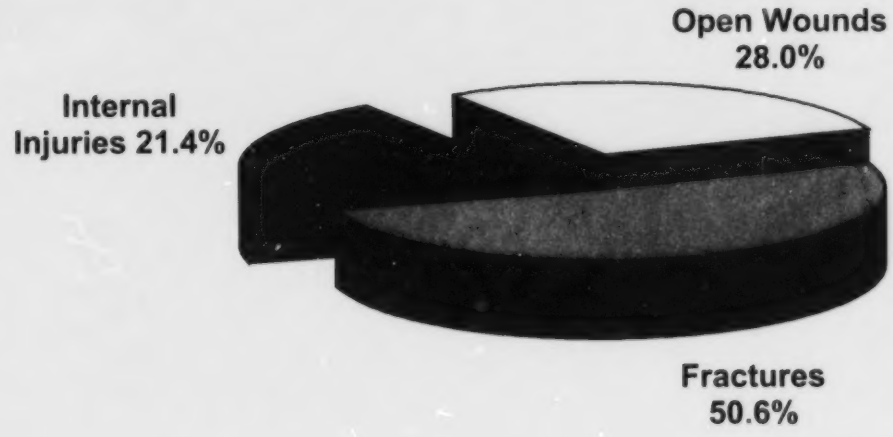
1a. Synopsis

Selected Statistics	
Total Reportable Collisions	221,962
Total Drivers Involved in Collisions	401,572
Total Vehicles Involved in Collisions	417,420
Fatal Collisions	763
Personal Injury Collisions	55,764
Property Damage Collisions	165,435
Persons Killed	868
Drivers Killed (excludes All Terrain Vehicle and Snow Vehicle Drivers)	507
Drivers Killed (Impaired or Had Been Drinking)	117
Passengers Killed	224
Pedestrians Killed	132
Other Road Users Killed	5
Persons Injured	84,062
Estimated Ontario Population (1999)	11,513,700
Licensed Drivers	7,918,314
Registered Motor Vehicles	7,017,511
Estimated Vehicle Kilometres Travelled (in millions)	88,586
Number of Persons Killed in Motor Vehicle Collisions per 100,000 People in Ontario	7.5
Number of Persons Killed in Motor Vehicle Collisions per 100 Million Kilometres Travelled	1.0
Collision Rate per 100 Million Kilometres Travelled	250.6
Fatal Collision Rate per 100 Million Kilometres Travelled	0.9
Number of Persons Killed in Motor Vehicle Collisions per 10,000 Licensed Drivers	1.1

1b. Selected Characteristics of Motor Vehicle Collisions

On January 1, 1988, a new Motor Vehicle Accident Report (MVAR) form was introduced, which is used to compile collision statistics. As a result, some of the information may not be directly comparable to data from years prior to 1988.

Per Cent of Hospital Admissions by Injury Type, 1999



1c. The Health Perspective

Selected Diagnoses of Motor Vehicle Collision Injuries Hospitalized in Ontario, 1998/99

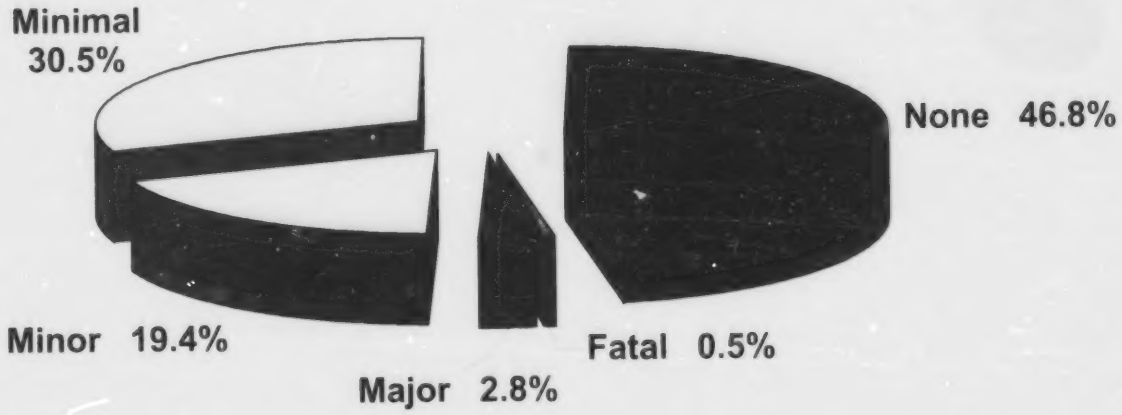
Selected Diagnoses	Hospital Admissions	Hospital Days of Stay
Fracture of skull	483	5,501
Fracture of neck and trunk	1,307	13,296
Fracture of upper limb	587	3,128
Fracture of lower limb	1,413	12,606
Dislocation, sprains and strains	242	888
Intracranial injury, excluding those with skull fracture	1,041	8,770
Internal injury of chest, abdomen and pelvis	668	6,103
Open wound of head, neck and trunk	164	430
Open wound of upper limb	43	127
Open wound of lower limb	64	511
Other injuries, burns and traumatic complications	1,966	37,379
Total Admissions and Days	**7,978**	**88,739**

Selected Surgical Procedures for Motor Vehicle Collision Injuries Hospitalized in Ontario, 1999

Selected Procedure	Hospital Admissions	Hospital Days of Stay
Operations on skull, brain and cerebral meninges	141	3,540
Operations on spinal cord and canal structures	53	811
Operations on nose, mouth and pharynx	45	198
Operations on chest wall, pleura, mediastinum and diaphragm	146	1,880
Operations on bone marrow and spleen	63	1,098
Operations on kidney	8	249
Operation on facial bones and joints	138	915
Reduction of fracture and dislocation	1,800	15,895
Repair and plastic operations on joint structures	152	3,023
Operations on skin and subcutaneous tissue	413	3,045
Other surgical procedure	617	9,962
Sub-total of surgical admission and days	**3,576**	**40,616**
No surgical procedures reported	**4,402**	**48,123**
Total Admissions and Days	**7,978**	**88,739**

2 The People

Per Cent of Involved Persons in Collisions by Severity of Injury, 1999



2a. People in Collisions

Table 2.1 **Category of Involved Person by Severity of Injury in Fatal and Personal Injury Collisions** 1999**

Category of Involved Person	Severity of Injury None	Minimal	Minor	Major	Fatal	Total
Driver	47,050	28,686	17,087	2,170	452	**95,445**
Passenger*	26,712	15,916	9,520	1,301	221	**53,670**
Pedestrian	118	1,931	2,399	564	132	**5,144**
Bicyclist	33	1,459	1,126	117	17	**2,752**
Bicycle Passenger	5	64	55	7	0	**131**
All Terrain Vehicle Driver	10	7	7	2	2	**28**
All Terrain Vehicle Passenger	10	2	2	4	0	**18**
Snow Vehicle Driver	2	10	13	12	2	**39**
Snow Vehicle Passenger	0	3	5	5	0	**13**
Motorcycle Driver	76	370	541	204	38	**1,229**
Motorcycle Passenger	34	62	121	40	3	**260**
Moped Driver	3	7	8	1	0	**19**
Moped Passenger	1	1	0	0	0	**2**
Hanger On	32	25	22	5	0	**84**
Other	664	97	77	7	1	**846**
Total	**74,750**	**48,640**	**30,983**	**4,439**	**868**	**159,680**

* Includes bus passengers.
** HTA (Highway Traffic Act) reportable collisions. For more information on special vehicles, see Chapter 6.

Due to a change in the method of tabulating collision statistics, this table excludes individuals involved in property damage only collisions.

Fatal Person killed immediately or within 30 days of the motor vehicle collision.

Major Person admitted to hospital. Includes person admitted for observation.

Minor Person went to hospital and was treated in the emergency room but was not admitted.

Minimal Person did not go to hospital when leaving the scene of the collision. Includes minor abrasions, bruises and complaint of pain.

None Uninjured person.

Table 2.2 **Category of Person Killed by Age Groups, 1999**

Category of Person	Age Groups																Total
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	0	0	0	4	11	13	11	14	43	86	73	73	47	40	37	0	**452**
Passenger*	7	11	14	9	13	7	16	16	15	24	27	17	18	15	12	0	**221**
Pedestrian	4	3	7	4	2	0	3	0	7	12	14	14	11	15	36	0	**132**
Bicyclist	3	1	2	0	1	1	0	0	1	2	1	3	0	2	0	0	**17**
Bicycle Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
All Terrain Vehicle Driver	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	**2**
All Terrain Vehicle Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Snow Vehicle Driver	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	**2**
Snow Vehicle Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Motorcycle Driver	0	0	0	0	1	1	1	3	9	10	5	4	3	1	0	0	**38**
Motorcycle Passenger	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	**3**
Moped Driver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Moped Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Other	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	**1**
Total	**14**	**15**	**24**	**19**	**28**	**23**	**31**	**33**	**75**	**134**	**121**	**114**	**79**	**73**	**85**	**0**	**868**

* Includes hangers on

UK = Unknown

HTA (Highway Traffic Act) reportable collisions. For more information on special vehicles, see Chapter 6.

Table 2.3 **Category of Persons Injured by Age Groups 1999**

Category of	Age Groups																Total
Person	**0-4**	**5-9**	**10-15**	**16**	**17**	**18**	**19**	**20**	**21-24**	**25-34**	**35-44**	**45-54**	**55-64**	**65-74**	**75+**	**UK**	
Driver	14	5	49	219	969	1,217	1,302	1,298	4,717	11,455	11,568	7,522	3,919	2,269	1,347	73	**47,943**
Passenger*	1,110	1,793	2,386	824	1,023	1,032	931	846	2,501	4,186	3,179	2,460	1,582	1,311	818	792	**26,774**
Pedestrian	103	359	744	136	113	107	99	95	309	663	634	503	344	309	241	135	**4,894**
Bicyclist	31	148	571	85	75	58	55	60	190	462	399	213	87	52	27	189	**2,702**
Bicycle Passenger	5	5	40	7	5	3	2	3	14	22	17	9	3	1	0	0	**136**
All Terrain Vehicle Driver	0	0	4	3	1	1	0	0	2	3	1	0	0	0	1	0	**16**
All Terrain Vehicle Passenger	1	0	3	0	1	0	0	0	0	2	0	1	1	0	0	0	**9**
Snow Vehicle Driver	0	0	4	5	1	0	0	2	2	9	9	3	0	0	0	0	**35**
Snow Vehicle Passenger	0	0	4	1	1	1	1	0	3	1	1	1	0	0	0	0	**14**
Motorcycle Driver	1	1	3	28	21	36	28	32	155	334	246	172	41	14	2	1	**1,115**
Motorcycle Passenger	2	4	14	3	7	4	5	9	33	47	48	28	11	2	1	8	**226**
Moped Driver	0	0	1	1	0	0	0	0	1	1	1	5	3	2	1	0	**16**
Moped Passenger	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Other	2	0	3	5	0	3	3	2	11	31	47	27	11	5	3	28	**181**
Total	**1,269**	**2,315**	**3,826**	**1,318**	**2,217**	**2,462**	**2,426**	**2,347**	**7,938**	**17,216**	**16,150**	**10,944**	**6,002**	**3,965**	**2,441**	**1,226**	**84,062**

* Includes hangers on

HTA (Highway Traffic Act) reportable collisions. For more information on special vehicles, see Chapter 6.

Table 2.4 Sex of Driver by Class of Collision 1999

Sex of Driver	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Male	1,051	69,034	203,485	**273,570**
Female	313	36,380	88,365	**125,058**
Unknown*	10	468	2,466	**2,944**
Total	**1,374**	**105,882**	**294,316**	**401,572**

Fatal Collision A motor vehicle collision in which at least one person sustains bodily injuries resulting in death. Prior to January 1, 1982, fatal collision statistics included deaths attributed to accidental injuries up to one year after the collision. Since that date, only deaths from injuries within thirty days of the collision have been included.

Personal Injury Collision A motor vehicle collision in which at least one person involved sustains bodily injuries not resulting in death.

Property Damage Collision A motor vehicle collision in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property including damage to the motor vehicle or its load.

The minimum reportable level for property damage only collision rose from $200 to $400 on January 1, 1978 and rose again to $700 on January 1, 1985. As of January 1, 1998 the minimum reportable level for property damage only collisions is $1,000.

On January 1, 1997 Collision Self-Reporting for property damage only collisions was introduced. See Appendix for more explanation about Collision Self-Reporting.

Table 2.5 Driver Condition by Class of Collision 1999

Condition of Driver	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Normal	959	85,908	235,814	**322,681**
Had Been Drinking	54	1,728	2,713	**4,495**
Ability Impaired - Alcohol over .08	100	1,101	1,767	**2,968**
Ability Impaired Alcohol	19	533	770	**1,322**
Ability Impaired Drugs	8	69	112	**189**
Fatigue	26	678	1,040	**1,744**
Medical/Physical Disability	8	474	474	**956**
Inattentive	51	7,395	14,151	**21,597**
Other	5	274	633	**912**
Unknown*	144	7,722	36,842	**44,708**
Total	**1,374**	**105,882**	**294,316**	**401,572**

Had Been Drinking Driver had consumed alcohol according to the police but his/her physical condition was not legally impaired.

Ability Impaired Alcohol Over .08 Driver had consumed alcohol and upon testing was found to have a blood alcohol level in excess of 0.08 grams of alcohol per 100 millilitres of blood.

Ability Impaired Alcohol Driver had consumed sufficient alcohol to warrant being charged with a drinking and driving offence.

Inattentive Driver was operating a motor vehicle without due care and attention or placing less than full concentration on driving, e.g., changing radio stations, consuming food, reading, talking on phone or two-way radio, using headphones.

* This includes situations where the enforcement officer is unable to make a determination, e.g., hit and run.

Table 2.6 Driver Age by Driver Condition In all Collisions 1999*

Driver Age	Driver Condition						Total
	Normal	Had Been Drinking	Impaired Alcohol over .08	Ability Impaired Alcohol	Other	Unknown	
Under 16	892	16	4	6	222	114	**1,254**
16	1,485	28	10	5	202	122	**1,852**
17	6,387	56	27	15	808	453	**7,746**
18	7,784	107	41	32	920	570	**9,454**
19	7,793	172	79	35	938	593	**9,610**
20	7,699	205	83	33	816	564	**9,400**
21-24	30,071	743	361	133	2,584	2,425	**36,317**
25-34	77,375	1,227	783	340	5,384	5,799	**90,908**
35-44	78,782	977	860	430	4,940	5,768	**91,757**
45-54	53,037	507	441	178	3,408	3,635	**61,206**
55-64	27,542	205	178	61	2,059	1,890	**31,935**
65-74	15,025	102	66	22	1,485	1,011	**17,711**
75 & over	7,804	39	23	7	1,238	669	**9,780**
Unknown	1,005	111	12	25	394	21,095	**22,642**
Total	**322,681**	**4,495**	**2,968**	**1,322**	**25,398**	**44,708**	**401,572**

* Includes bicyclists, drivers of all-terrain vehicles, etc.

Table 2.7 Recorded Occurrence of Driver Condition In Drivers Killed 1999*

Recorded Occurrence	Number of Drivers	%
Normal	267	52.1
Had Been Drinking	31	6.1
Ability Impaired - Alcohol over .08	80	15.6
Ability Impaired-Alcohol	6	1.2
Ability Impaired-Drugs	8	1.6
Fatigue	7	1.4
Medical/Physical Disability	7	1.4
Inattentive	18	3.5
Other	3	0.6
Unknown	85	16.6
Total	**512**	100.0

* Total includes Snow Vehicle Drivers killed in HTA reportable collisions.

* In years prior to 1996, Table 2.7 only included fatally injured drivers who were either normal or had been drinking. In order to better examine the other pre-crash factors related to deaths of all drivers, this table has now been expanded to include the driver conditions of all fatally injured drivers. These data can be recombined into the older format by recalculating the percentages using only the alcohol involved and normal drivers' data.

Table 2.8 Apparent Driver Action by Class of Collision 1999

Apparent Driver Action	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Driving Properly	571	50,793	141,000	**192,364**
Following Too Close	29	10,062	23,252	**33,343**
Speed Too Fast	76	1,176	1,712	**2,964**
Speed Too Fast for Conditions	94	4,174	11,899	**16,167**
Speed Too Slow	65	168	233	
Improper Turn	21	3,938	11,702	**15,661**
Disobey Traffic Control	75	4,950	6,499	**11,524**
Fail to Yield Right of Way	92	10,687	24,134	**34,913**
Improper Passing	18	758	2,693	**3,469**
Lost Control	203	7,376	17,741	**25,320**
Wrong Way on One Way Road	1	87	184	**272**
Improper Lane Change	15	1,728	8,600	**10,343**
Other*	123	7,081	18,897	**26,101**
Unknown	56	3,007	25,835	**28,898**
Total	**1,374**	**105,882**	**294,316**	**401,572**

* Includes actions defined as careless driving, inattentive driving, fell asleep, hit and run, driving on wrong side of road, improper parking, impaired driving, illegally parked, dangerous driving, inexperience, etc.

Table 2.9 Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Collisions 1999

Safety Equipment Used	Severity of Injury					
	Killed	Major	Minor	Minimal	Not Injured	Total
Seat Belt Used	261	1,600	14,686	26,340	41,924	**84,811**
Other Equipment*	7	71	510	538	288	**1,414**
Equipment Not Used	122	292	595	327	241	**1,577**
No Safety Equipment	1	4	27	37	38	**107**
Use Unknown	61	203	1,269	1,444	4,559	**7,536**
Total	**452**	**2,170**	**17,087**	**28,686**	**47,050**	**95,445**

* Other equipment includes construction and motorcycle helmets, etc., used in a motor vehicle. It also includes the use of air bags. Seat belt usage in conjunction with air bag deployment is unknown.

The tables on this page include only seat belt usage in collisions in which there were personal injuries or fatalities. Property damage only collisions are excluded. ORSARs published prior to 1988, included seat belt usage in all collisions.

Table 2.10 Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Collisions 1999

Safety Equipment Used	Severity of Injury					
	Killed	Major	Minor	Minimal	Not Injured	Total
Seat Belt Used	121	866	7,575	13,908	22,002	**44,472**
Child Safety Seat Used Incorrectly	1	6	15	32	73	**127**
Child Safety Seat Used Correctly	3	11	162	364	1,576	**2,116**
Other Equipment*	0	19	153	130	82	**384**
Equipment Not Used	58	240	705	382	358	**1,743**
No Safety Equipment	4	34	356	406	697	**1,497**
Use Unknown	34	125	537	657	1,879	**3,232**
Total	**221**	**1,301**	**9,503**	**15,879**	**26,667**	**53,571**

* Other equipment includes construction and motorcycle helmets, etc., used in a motor vehicle. It also includes the use of air bags. Seat belt usage in conjunction with air bag deployment is unknown.

Table 2.11 Restraints Use for Children (0 - 4 Years) Killed in Collisions 1995-1999

Year	Child Restraint Used Correctly	Child Restraint Used Incorrectly	Lap/Lap & Shoulder Belt	Restraint Not Available	Available Not Used	Use Unknown	Total
1995	5	2	10	1	2	0	**20**
1996	3	1	1	0	1	0	**6**
1997	8	0	4	0	2	2	**16**
1998	2	0	6	0	0	0	**8**
1999	3	1	3	0	0	0	**7**

Table 2.12 Restraint Use for Children (0 - 4 Years) Involved in Fatal and Personal Injury Collisions by Severity of Injury 1999

Restraint Used	Injury Level		
	Major / Fatal %	Minimal/Minor %	No Injuries %
Child Restraint Used Correctly	27.5	42.9	45.1
Child Restraint Used Incorrectly	11.8	3.7	2.1
Lap/Lap-Shoulder Belt	43.1	44.3	45.9
Not Available	3.9	3.2	1.7
Available/Not Used	9.8	2.5	0.7
Other	0.0	0.6	0.2
Unknown	3.9	2.8	4.3
Total	**100.0**	**100.0**	**100.0**

It is known from observation surveys that many child safety seats are not used correctly. This is not clear in these tables since children are often removed from the child safety seat before the police officer arrives on the scene. Both correct installation of the seats according to the manufacturer's instructions and correct use of the device in the vehicle are important for the child's protection.

Table 2.13 Pedestrian Condition by Severity of Injury 1999

Condition of Pedestrian	Killed	Injured
Normal	68	3,274
Had Been Drinking	9	223
Ability Impaired Alcohol over .08	12	6
Ability Impaired Alcohol	4	47
Ability Impaired Drugs	0	13
Fatigue	0	3
Medical or Physical Defect	6	103
Inattentive	10	619
Other	1	68
Unknown	22	538
Total	**132**	**4,894**

Table 2.14 Apparent Pedestrian Action by Severity of Injury 1999

Apparent Pedestrian Action	Killed	Injured
Crossing Intersection With Right of Way	12	1,503
Crossing Intersection Without Right of Way	25	765
Crossing Intersection No Traffic Control	21	363
Crossing Pedestrian Crossover	0	143
Crossing Marked Crosswalk Without Right of Way	1	99
Walking on Roadway With Traffic	12	152
Walking on Roadway Against Traffic	4	92
On Sidewalk or Shoulder	10	321
Playing or Working on Highway	4	87
Coming from Behind Parked Vehicle or Object	2	174
Running onto Roadway	11	472
Getting On/Off School Bus*	1	10
Getting On/Off Vehicle	0	73
Pushing/Working on Vehicle	0	24
Other	29	616
Unknown		
Total	**132**	**4,894**

* Calender Year

2b. Putting the People in Context

Table 2.15 Category of Persons Killed and Injured 1988-1999

Year	Ontario Population (Est.)**	Driver		Passenger*		Pedestrian		All Others		Persons Killed In All Classes		Persons Injured In All Classes	
											Rate Per		Rate Per
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Number	100,000	Number	100,000
1988	9,439,600	563	63,339	350	39,157	186	6,344	138	9,318	1,237	13.1	118,158	1,251.7
1989	9,598,600	627	66,334	369	39,950	161	6,187	129	8,181	1,286	13.4	120,652	1,257.0
1990	9,743,300	540	55,073	321	33,606	154	5,839	105	7,057	1,120	11.5	101,575	1,042.5
1991	10,084,900	542	48,021	298	30,230	157	5,352	105	6,916	1,102	10.9	90,519	897.6
1992	10,098,600	548	49,259	317	30,567	140	5,177	85	6,022	1,090	10.8	91,025	901.4
1993	10,813,200	595	49,628	296	30,584	146	5,181	98	5,756	1,135	10.5	91,149	842.9
1994	10,927,800	508	49,632	273	29,570	127	5,344	91	5,484	999	9.1	90,030	823.9
1995	11,100,000	527	49,916	276	29,440	126	5,261	70	4,955	999	9.0	89,572	807.0
1996	11,320,456	459	49,614	270	28,997	144	5,336	55	4,458	928	8.2	88,405	780.9
1997	11,500,329	474	47,861	224	27,915	133	5,154	68	4,597	899	7.8	85,527	743.7
1998	11,675,497	437	47,088	222	26,422	121	4,978	74	4,704	854	7.3	83,192	712.5
1999	11,513,700	452	47,943	221	26,774	132	4,894	63	4,451	868	7.5	84,062	730.1

* Excludes motorcycle passengers, who are included with "All Others".

** Source: Ministry of Finance

Table 2.16 Sex of Driver Population by Age Groups 1999

Sex of Driver	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
Male	229,117	338,267	820,441	988,950	775,480	497,853	563,785	**4,213,893**
Female	197,526	304,541	756,232	906,373	700,108	409,382	430,259	**3,704,421**
Total	**426,643**	**642,808**	**1,576,673**	**1,895,323**	**1,475,588**	**907,235**	**994,044**	**7,918,314**

Table 2.17 Driver Population by Age Groups 1988-1999

Year	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
1988	310,764	643,691	1,588,516	1,353,841	898,103	714,266	608,931	**6,118,112**
1989	323,109	631,470	1,634,187	1,409,053	931,991	720,788	639,826	**6,290,424**
1990	322,542	629,478	1,666,474	1,467,699	964,925	728,380	669,385	**6,448,883**
1991	319,584	627,931	1,673,502	1,501,765	1,018,365	736,652	696,432	**6,574,231**
1992	314,685	623,707	1,665,433	1,528,726	1,082,883	745,759	727,568	**6,688,761**
1993	326,389	621,934	1,655,573	1,566,083	1,136,365	758,840	758,244	**6,823,428**
1994	358,817	622,704	1,645,962	1,611,972	1,190,442	770,882	783,181	**6,983,960**
1995	360,847	614,094	1,621,989	1,659,749	1,240,072	782,871	806,396	**7,086,018**
1996	361,571	612,060	1,608,567	1,717,050	1,297,289	805,486	856,144	**7,258,167**
1997	394,512	624,532	1,611,708	1,789,110	1,360,555	837,606	919,584	**7,537,607**
1998	412,589	634,053	1,593,744	1,845,474	1,415,258	872,426	954,212	**7,727,756**
1999	426,643	642,808	1,576,673	1,895,323	1,475,588	907,235	994,044	**7,918,314**

Table 2.18 Driver Licence Class by Sex 1999

Licence Class	Driver Sex Male	%	Female	%	Total	%
A	89,358	2.12	1,726	.05	91,084	1.15
AB	4,412	.10	470	.01	4,882	.06
ABM	2,478	.06	133	.00	2,611	.03
ABM1	40	.00	10	.00	50	.00
ABM2	96	.00	19	.00	115	.00
AC	17,006	.40	539	.01	17,545	.22
ACM	8,207	.19	110	.00	8,317	.11
ACM1	200	.01	3	0.00	203	.00
ACM2	428	.01	7	.00	435	.01
AM	29,712	.71	195	.01	29,907	.38
AM1	899	.02	7	.00	906	.01
AM2	1,562	.04	25	.00	1,587	.02
B	15,960	.38	15,943	.43	31,903	.40
BM	4,522	.11	881	.02	5,403	.07
BM1	82	.00	41	.00	123	.00
BM2	173	.00	108	.00	281	.00
C	5,702	.14	506	.01	6,208	.08
CM	1,729	.04	56	.00	1,785	.02
CM1	22	.00	3	0.00	25	.00
CM2	80	.00	7	.00	87	.00
D	217,125	5.15	15,340	.41	232,465	2.94
DE	100	.00	14	.00	114	.00
DEM	29	.00	2	0.00	31	.00
DEM1	0	0.00	1	0.00	1	0.00
DEM2	2	0.00	0	0.00	2	0.00
DF	2,144	.05	99	.00	2,243	.03
DFM	942	.02	19	.00	961	.01
DFM1	19	.00	2	0.00	21	.00
DFM2	34	.00	3	0.00	37	.00
DM	54,315	1.29	1,044	.03	55,359	.70
DM1	984	.02	49	.00	1,033	.01
DM2	1,870	.04	92	.00	1,962	.02
E	1,179	.03	1,986	.05	3,165	.04
EM	174	.00	43	.00	217	.00
EM1	2	0.00	3	0.00	5	0.00
EM2	6	.00	7	.00	13	.00

Continued on next page

Table 2.18 **Driver Licence Class by Sex 1999** **Continued**

Licence Class	Driver Sex				Total	%
	Male	%	Female	%		
F	7,132	.17	4,915	.13	**12,047**	**.15**
FM	1,611	.04	240	.01	**1,851**	**.02**
FM1	53	.00	20	.00	**73**	**.00**
FM2	126	.00	29	.00	**155**	**.00**
G	2,846,868	67.56	3,064,138	82.72	**5,911,006**	**74.65**
G1	174,773	4.15	231,345	6.25	**406,118**	**5.13**
G1M	79	.00	22	.00	**101**	**.00**
G1M1	1,085	.03	107	.00	**1,192**	**.02**
G1M2	607	.01	95	.00	**702**	**.01**
G2	335,703	7.97	301,954	8.15	**637,657**	**8.05**
G2M	581	.01	73	.00	**654**	**.01**
G2M1	3,246	.08	264	.01	**3,510**	**.04**
G2M2	3,961	.09	312	.01	**4,273**	**.05**
GM	334,339	7.93	52,325	1.41	**386,664**	**4.88**
GM1	15,222	.36	3,237	.09	**18,459**	**.23**
GM2	24,431	.58	5,417	.15	**29,848**	**.38**
M	1,278	.03	239	.01	**1,517**	**.02**
M1	459	.01	65	.00	**524**	**.01**
M2	746	.02	131	.00	**877**	**.01**
Other	0	0.00	0	0.00	**0**	**0.00**
Total	**4,213,893**	**100**	**3,704,421**	**100**	**7,918,314**	**100**

Table 2.19 Licensed Drivers, Total Collisions, Persons Killed and Injured 1931-1999

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1931	666,266	9,241	571	8,494
1932	648,710	9,171	502	8,231
1933	638,710	8,634	403	7,877
1934	665,743	9,645	512	8,990
1935	707,457	10,648	560	9,839
1936	755,765	11,388	546	10,251
1937	802,765	13,906	766	12,092
1938	866,729	13,715	640	11,683
1939	899,572	13,710	652	11,638
1940	937,551	16,921	716	13,715
1941	986,773	18,167	801	14,275
1942	961,883	13,490	567	10,205
1943	919,457	11,025	549	8,628
1944	905,650	11,004	498	8,373
1945	971,852	13,458	598	9,804
1946	1,087,445	17,356	688	12,228
1947	1,144,291	22,293	734	13,056
1948	1,209,408	27,406	740	14,970
1949	1,278,584	34,472	830	17,469
1950	1,366,388	43,681	791	19,940
1951	1,461,538	54,920	949	22,557
1952	1,556,559	58,515	1,010	23,643
1953	1,656,259	65,866	1,082	24,353
1954	1,747,567	62,509	1,045	24,607
1955	1,856,845	63,219	1,111	26,246
1956	1,967,789	71,399	1,180	28,626
1957	2,088,551	76,302	1,279	30,414
1958	2,176,417	76,884	1,112	30,106
1959	2,270,246	81,518	1,187	31,602
1960	2,355,567	87,186	1,166	34,436
1961	2,414,615	85,577	1,268	37,146
1962	2,469,425	94,231	1,383	41,766
1963	2,555,015	104,919	1,421	47,801
1964	2,694,023	111,232	1,424	54,560
1965	2,739,138	128,462	1,611	60,917
1966	2,821,648	139,781	1,596	65,210
1967	3,004,654	145,008	1,719	67,280
1968	3,128,509	155,127	1,586	71,520
1969	3,247,979	169,395	1,683	74,902
1970	3,422,892	141,609	1,535	75,126
1971	3,563,197	158,831	1,769	84,650
1972	3,688,541	189,494	1,934	95,181

Continued on next page

Table 2.19 Licensed Drivers, Total Collisions, Persons Killed and Injured 1931-1999

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1973	3,841,628	193,021	1,959	97,790
1974	3,972,980	204,271	1,748	98,673
1975	4,160,623	213,689	1,800	97,034
1976	4,315,925	211,865	1,511	83,736
1977	4,562,903	218,567	1,420	95,664
1978	4,725,546	186,363	1,450	94,979
1979	4,858,351	197,196	1,560	101,321
1980	4,993,531	196,501	1,508	101,367
1981	5,123,177	198,372	1,445	100,321
1982	5,247,198	187,943	1,138	92,815
1983	5,380,259	181,999	1,204	91,706
1984	5,513,911	194,782	1,132	97,230
1985	5,660,422	189,750	1,191	109,169
1986	5,817,799	187,286	1,102	108,839
1987	5,978,105	203 431	1,229	121,089
1988	6,118,112	228,398	1,237	118,158
1989	6,290,424	247,038	1,286	120,652
1990	6,448,883	220,188	1,120	101,575
1991	6,574,231	213,669	1,102	90,519
1992	6,688,761	224,249	1,090	91,025
1993	6,823,428	228,834	1,135	91,149
1994*	6,983,960	226,996	999	90,030
1995	7,086,018	219,085	999	89,572
1996	7,258,167	215,024	929	88,445
1997	7,537,607	221,500	899	85,527
1998	7,727,756	213,356	854	83,192
1999	7,918,314	221,962	868	84,062

* Graduated Licensing System (GLS) began on April 1, 1994. See Appendix for further details on GLS.

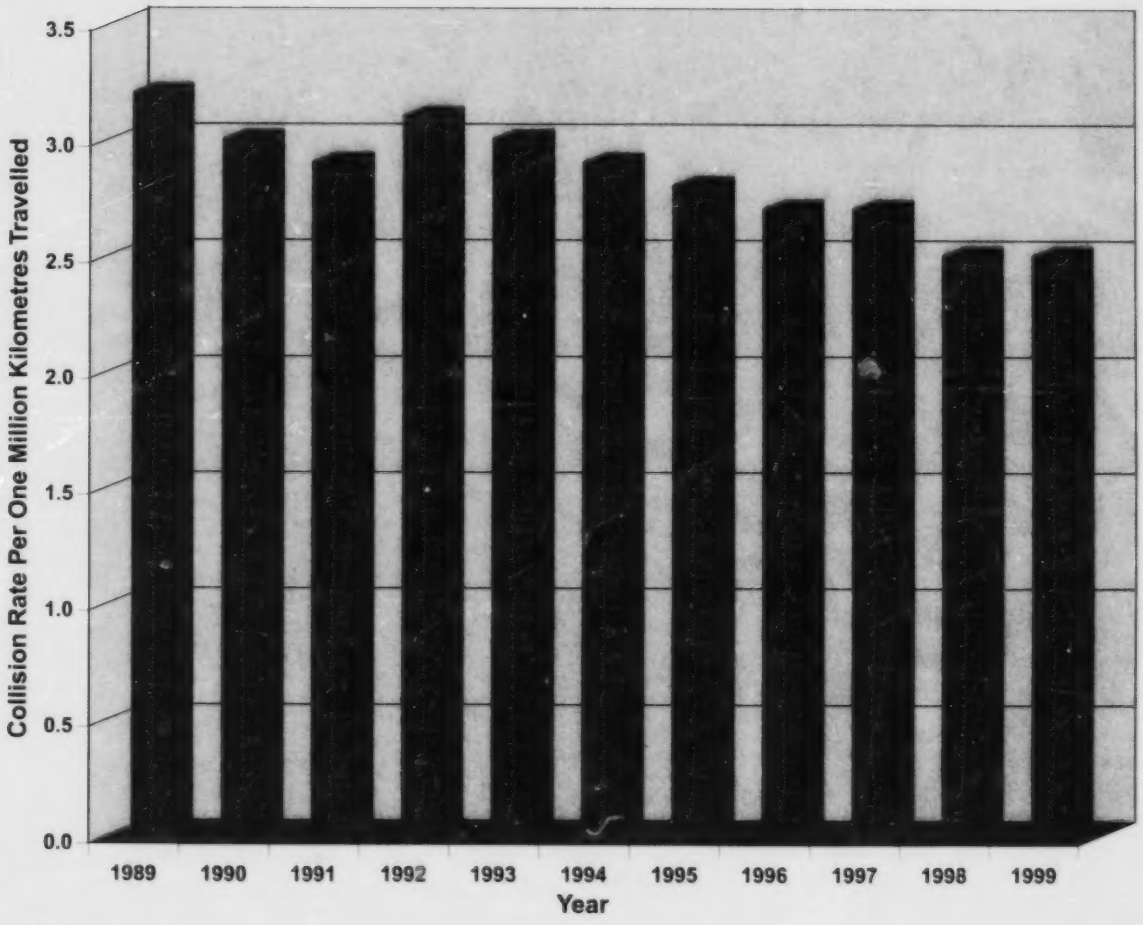
Table 2.20 Driver Age Groups - Number Licensed, Collision Involvement and Per Cent Involved in Collisions 1999

Drivers Age	Drivers Licensed			Drivers Involved in Collisions*			% of Drivers of Each Age Involved in Collisions		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Under 16	-	-	-	259	97	**356**	-	-	-
16	46,514	38,536	**85,050**	1,149	576	**1,725**	2.5	1.5	**2.0**
17	56,702	48,374	**105,076**	4,894	2,747	**7,641**	8.6	5.7	**7.3**
18	60,720	53,336	**114,056**	6,082	3,277	**9,359**	10.0	6.1	**8.2**
19	65,181	57,280	**122,461**	6,389	3,135	**9,524**	9.8	5.5	**7.8**
20	65,840	57,837	**123,677**	6,213	3,107	**9,320**	9.4	5.4	**7.5**
21-24	272,427	246,704	**519,131**	23,896	12,128	**36,024**	8.8	4.9	**6.9**
25-34	820,441	756,232	**1,576,673**	60,276	29,825	**90,101**	7.3	3.9	**5.7**
35-44	988,950	906,373	**1,895,323**	59,819	30,994	**90,813**	6.1	3.4	**4.8**
45-54	775,480	700,108	**1,475,588**	40,229	20,347	**60,576**	5.2	2.9	**4.1**
55-64	497,853	409,382	**907,235**	22,416	9,244	**31,660**	4.5	2.3	**3.5**
65-74	363,144	276,319	**639,463**	12,286	5,312	**17,598**	3.4	1.9	**2.8**
75 & over	200,641	153,940	**354,581**	6,382	3,350	**9,732**	3.2	2.2	**2.7**
Unknown	-	-	-	33,144	5	**33,149**	-	-	-
Total	**4,213,893**	**3,704,421**	**7,918,314**	**283,434**	**124,144**	**407,578**	**6.7**	**3.4**	**5.1**

* This table includes collisions with parked vehicles and excludes drivers of non-motor vehicles, e.g. bicyclists, snow vehicle operators, etc.

3 The Collision

Collision Rate Per One Million Kilometres Travelled in Ontario, 1989 to 1999



3a. Types of Collisions

Table 3.1 Class of Collision 1988-1999

Year	Class of Collision			Total
		Personal	Property	
	Fatal	Injury	Damage	
1988	1,076	76,724	150,598	**228,398**
1989	1,106	77,852	168,080	**247,038**
1990	959	65,912	153,317	**220,188**
1991	956	59,242	153,471	**213,669**
1992	942	58,889	164,418	**224,249**
1993	987	58,932	168,915	**228,834**
1994	875	58,525	167,596	**226,996**
1995	860	58,273	159,952	**219,085**
1996	816	57,791	156,417	**215,024**
1997	807	56,121	164,572	**221,500**
1998	768	55,441	157,147	**213,356**
1999	763	55,764	165,435	**221,962**

Table 3.2 Collision Rate Per One Million Kilometres Travelled 1988-1999

Year	Collision Rate
1988	3.2
1989	3.2
1990	3.0
1991	2.9
1992	3.1
1993	3.0
1994	2.9
1995	2.8
1996	2.7
1997	2.7
1998	2.5
1999	2.5

Table 3.3 Motor Vehicles Involved in Collisions Based on Initial Impact 1999*

Motor Vehicle in Collision Involving Moveable Objects:	Class of Collision Personal Fatal	Property Injury	Damage	Total
Other Motor Vehicles	851	85,279	249,244	**335,374**
Unattended Vehicles	5	675	13,491	**14,171**
Pedestrian	124	4,364	148	**4,636**
Cyclist	16	2,792	417	**3,225**
Railway Train	10	28	33	**71**
Street Car	0	48	271	**319**
Farm Tractor	2	35	89	**126**
Domestic Animal	1	89	533	**623**
Wild Animal	6	477	8,434	**8,917**
Other Moveable Objects	2	27	179	**208**
Sub-total	**1,017**	**93,814**	**272,839**	**367,670**
Fixed Objects:				
Cable Guide Rail	2	73	341	**416**
Concrete Guide Rail	3	204	560	**767**
Steel Guide Rail	3	179	809	**991**
Pole (Utility Tower)	4	324	1,276	**1,604**
Pole (Sign/Parking Meter)	1	129	729	**859**
Fence/Noise Barrier	2	36	186	**224**
Culvert	1	14	29	**44**
Bridge Support	1	37	107	**145**
Rock Face	0	11	41	**52**
Snow Bank or Drift	2	59	300	**361**
Ditch	13	318	654	**985**
Curb	12	469	1,443	**1,924**
Crash Cushion	0	12	35	**47**
Building or Wall	0	36	171	**207**
Water Course	0	0	5	**5**
Construction Marker	0	7	45	**52**
Tree, Shrub, or Stump	8	119	351	**478**
Other Fixed Object	5	237	1,378	**1,620**
Sub-total	**57**	**2,264**	**8,460**	**10,781**
Other Events:				
Ran Off Road	134	3,728	7,175	**11,037**
Skidding/Sliding	127	5,185	14,092	**19,404**
Jack-knifing	2	17	114	**133**
Load Spill	2	6	55	**63**
Fire/Explosion	0	8	337	**345**
Submersion	0	0	5	**5**
Rollover	5	237	329	**571**
Debris on Road	1	131	692	**824**
Debris off Vehicle	3	115	862	**980**
Other Non-Collision Event	39	1,531	4,037	**5,607**
Sub-total	**313**	**10,958**	**27,698**	**38,969**
Total	**1,387**	**107,036**	**308,997**	**417,420**

* Table 3.3 reflects the number of motor vehicles involved in collisions by initial impact.

Table 3.4 **Initial Impact Type by Class of Collision 1999**

Initial Impact Type	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Approaching	139	1,313	1,964	**3,416**
Angle	106	7,465	16,409	**23,980**
Rear End	40	16,616	40,031	**56,687**
Sideswipe	51	2,975	18,747	**21,773**
Turning Movement	63	11,719	35,162	**46,944**
With Unattended Motor Vehicle	6	621	13,520	**14,147**
Single Motor Vehicle	355	14,916	37,105	**52,376**
Other	3	133	2,483	**2,619**
Unknown	0	6	14	**20**
Total	**763**	**55,764**	**165,435**	**221,962**

3b. Time and Environment

Table 3.5 Month of Occurrence by Class of Collision 1999

Month of Occurrence	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
January	42	5.5	4,616	8.3	20,138	12.2	**24,796**	**11.2**
February	56	7.3	3,414	6.1	11,100	6.7	**14,570**	**6.6**
March	50	6.6	3,975	7.1	13,328	8.1	**17,353**	**7.8**
April	39	5.1	4,006	7.2	10,602	6.4	**14,647**	**6.6**
May	63	8.3	4,899	8.8	12,215	7.4	**17,177**	**7.7**
June	68	8.9	5,065	9.1	12,336	7.5	**17,469**	**7.9**
July	92	12.1	5,065	9.1	12,198	7.4	**17,355**	**7.8**
August	75	9.8	5,162	9.3	12,430	7.5	**17,667**	**8.0**
September	70	9.2	4,822	8.6	12,994	7.9	**17,886**	**8.1**
October	64	8.4	4,784	8.6	14,508	8.8	**19,356**	**8.7**
November	69	9.0	4,922	8.8	16,300	9.9	**21,291**	**9.6**
December	75	9.8	5,034	9.0	17,286	10.4	**22,395**	**10.1**
Total	**763**	**100**	**55,764**	**100**	**165,435**	**100**	**221,962**	**100.0**

Table 3.6 Day of Week by Class of Collision 1999

Day of Occurrence	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
Monday	98	12.8	7,834	14.0	23,524	14.2	**31,456**	**14.2**
Tuesday	83	10.9	8,240	14.8	24,083	14.6	**32,406**	**14.6**
Wednesday	111	14.5	8,351	15.0	25,629	15.5	**34,091**	**15.4**
Thursday	95	12.5	7,888	14.1	24,401	14.7	**32,384**	**14.6**
Friday	129	16.9	9,644	17.3	29,447	17.8	**39,220**	**17.7**
Saturday	141	18.5	7,654	13.7	21,937	13.3	**29,732**	**13.4**
Sunday	106	13.9	6,153	11.0	16,414	9.9	**22,673**	**10.2**
Total	**763**	**100.0**	**55,764**	**99.9**	**165,435**	**100.0**	**221,962**	**100.0**

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

Table 3.7 **Hour of Occurrence by Class of Collision 1999**

Hour of Occurrence A.M.	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
12 to 1 a.m.	24	3.1	827	1.5	2,618	1.6	3,469	1.6
1 to 2 a.m.	24	3.1	779	1.4	2,409	1.5	3,212	1.4
2 to 3 a.m.	25	3.3	787	1.4	2,367	1.4	3,179	1.4
3 to 4 a.m.	28	3.7	611	1.1	1,853	1.1	2,492	1.1
4 to 5 a.m.	13	1.7	410	0.7	1,335	0.8	1,758	0.8
5 to 6 a.m.	22	2.9	431	0.8	1,691	1.0	2,144	1.0
Sub-total	**136**	**18**	**3,845**	**6.9**	**12,273**	**7.4**	**16,254**	**7.3**
6 to 7 a.m.	30	3.9	1,197	2.1	3,904	2.4	5,131	2.3
7 to 8 a.m.	35	4.6	2,051	3.7	6,902	4.2	8,988	4.1
8 to 9 a.m.	29	3.8	3,359	6.0	10,064	6.0	13,452	6.1
9 to 10 a.m.	21	2.8	2,411	4.3	7,693	4.7	10,125	4.6
10 to 11 a.m.	32	4.2	2,492	4.5	7,565	4.6	10,089	4.5
11 to 12 noon	26	3.4	2,854	5.2	8,917	5.4	11,797	5.3
Sub-total	**173**	**22.7**	**14,364**	**25.8**	**45,045**	**27.3**	**59,582**	**26.8**
Hour of Occurrence P.M.								
12 to 1 p.m.	38	5.0	3,455	6.2	9,797	5.9	13,290	6.0
1 to 2 p.m.	28	3.7	3,244	5.8	9,452	5.7	12,724	5.7
2 to 3 p.m.	48	6.3	3,576	6.4	10,125	6.1	13,749	6.2
3 to 4 p.m.	50	6.6	4,754	8.5	12,776	7.7	17,580	7.9
4 to 5 p.m.	45	5.9	4,737	8.5	13,061	7.9	17,843	8.0
5 to 6 p.m.	43	5.6	4,552	8.2	13,089	7.9	17,684	8.0
Sub-total	**252**	**33.1**	**24,318**	**43.6**	**68,300**	**41.2**	**92,870**	**41.8**
6 to 7 p.m.	42	5.5	3,682	6.6	10,529	6.4	14,253	6.4
7 to 8 p.m.	36	4.7	2,752	4.9	7,643	4.6	10,431	4.7
8 to 9 p.m.	41	5.4	1,934	3.5	5,907	3.5	7,882	3.6
9 to 10 p.m.	26	3.4	1,840	3.3	5,453	3.3	7,319	3.3
10 to 11 p.m.	23	3.0	1,526	2.7	4,760	2.9	6,309	2.8
11 to 12 midnight	23	3.0	1,245	2.2	3,938	2.4	5,206	2.3
Sub-total	**191**	**25**	**12,979**	**23.2**	**38,230**	**23.1**	**51,400**	**23.2**
Unknown	11	1.4	258	0.5	1,587	1.0	1,856	0.8
Total	**763**	**100.0**	**55,764**	**100.0**	**165,435**	**100.0**	**221,962**	**100.0**

Table 3.7 **Hour of Occurrence by Class of Collision 1999**

Hour of Occurrence A.M.	Class of Collision						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
12 to 1 a.m.	24	3.1	827	1.5	2,618	1.6	3,469	1.6
1 to 2 a.m.	24	3.1	779	1.4	2,409	1.5	3,212	1.4
2 to 3 a.m.	25	3.3	787	1.4	2,367	1.4	3,179	1.4
3 to 4 a.m.	28	3.7	611	1.1	1,853	1.1	2,492	1.1
4 to 5 a.m.	13	1.7	410	0.7	1,335	0.8	1,758	0.8
5 to 6 a.m.	22	2.9	431	0.8	1,691	1.0	2,144	1.0
Sub-total	**136**	**18**	**3,845**	**6.9**	**12,273**	**7.4**	**16,254**	**7.3**
6 to 7 a.m.	30	3.9	1,197	2.1	3,904	2.4	5,131	2.3
7 to 8 a.m.	35	4.6	2,051	3.7	6,902	4.2	8,988	4.1
8 to 9 a.m.	29	3.8	3,359	6.0	10,064	6.0	13,452	6.1
9 to 10 a.m.	21	2.8	2,411	4.3	7,693	4.7	10,125	4.6
10 to 11 a.m.	32	4.2	2,492	4.5	7,565	4.6	10,089	4.5
11 to 12 noon	26	3.4	2,854	5.2	8,917	5.4	11,797	5.3
Sub-total	**173**	**22.7**	**14,364**	**25.8**	**45,045**	**27.3**	**59,582**	**26.8**
Hour of Occurrence P.M.								
12 to 1 p.m.	38	5.0	3,455	6.2	9,797	5.9	13,290	6.0
1 to 2 p.m.	28	3.7	3,244	5.8	9,452	5.7	12,724	5.7
2 to 3 p.m.	48	6.3	3,576	6.4	10,125	6.1	13,749	6.2
3 to 4 p.m.	50	6.6	4,754	8.5	12,776	7.7	17,580	7.9
4 to 5 p.m.	45	5.9	4,737	8.5	13,061	7.9	17,843	8.0
5 to 6 p.m.	43	5.6	4,552	8.2	13,089	7.9	17,684	8.0
Sub-total	**252**	**33.1**	**24,318**	**43.6**	**68,300**	**41.2**	**92,870**	**41.8**
6 to 7 p.m.	42	5.5	3,682	6.6	10,529	6.4	14,253	6.4
7 to 8 p.m.	36	4.7	2,752	4.9	7,643	4.6	10,431	4.7
8 to 9 p.m.	41	5.4	1,934	3.5	5,907	3.5	7,882	3.6
9 to 10 p.m.	26	3.4	1,840	3.3	5,453	3.3	7,319	3.3
10 to 11 p.m.	23	3.0	1,526	2.7	4,760	2.9	6,309	2.8
11 to 12 midnight	23	3.0	1,245	2.2	3,938	2.4	5,206	2.3
Sub-total	**191**	**25**	**12,979**	**23.2**	**38,230**	**23.1**	**51,400**	**23.2**
Unknown	11	1.4	258	0.5	1,587	1.0	1,856	0.8
Total	**763**	**100.0**	**55,764**	**100.0**	**165,435**	**100.0**	**221,962**	**100.0**

Table 3.8 Statutory Holidays, Holiday Weekends - Fatal Collisions, Persons Killed and Injured 1999

Statutory Holiday*	Number of Fatal Collisions	Drivers		Passengers		Others		Total	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Easter Weekend	6	3	2	1	4	2	0	6	6
Victoria Day	10	4	12	6	14	0	2	10	28
Canada Day	9	6	5	3	8	2	0	11	13
Civic Holiday (Simcoe Day)	12	7	6	5	7	1	0	13	13
Labour Day	11	8	7	3	9	0	3	11	19
Thanksgiving Day	6	5	1	3	3	1	0	9	4
Christmas/Boxing Day	8	6	5	6	9	0	0	12	14

* Actual length may vary depending on the calendar year. For certain holidays, it might include the whole weekend.

Table 3.9 Light Condition by Class of Collision 1999

Light Condition	Class of Collision						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Daylight	420	55.1	40,206	72.2	112,739	68.2	153,365	69.1
Dawn	14	1.8	715	1.3	3,042	1.8	3,771	1.7
Dusk	24	3.1	1,693	3.0	5,559	3.4	7,276	3.3
Darkness	305	40.0	13,128	23.5	43,747	26.4	57,180	25.8
Other	0	0.0	22	0.0	348	0.2	370	0.2
Total	**763**	**100.0**	**55,764**	**100.0**	**165,435**	**100.0**	**221,962**	**100.0**

Table 3.10 Visibility by Class of Collision 1999

Visibility	Class of Collision						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Clear	630	82.5	44,291	79.5	123,529	74.8	168,450	75.9
Rain	65	8.5	6,701	12.0	20,527	12.4	27,293	12.3
Snow	42	5.5	3,410	6.1	15,783	9.5	19,235	8.7
Freezing Rain	5	0.7	432	0.8	1,724	1.0	2,161	1.0
Drifting Snow	4	0.5	352	0.6	1,509	0.9	1,865	0.8
Strong Wind	5	0.7	125	0.2	536	0.3	666	0.3
Fog, Mist, Smoke, or Dust	9	1.2	370	0.7	1,256	0.8	1,635	0.7
Other	3	0.4	83	0.1	571	0.3	657	0.3
Total	**763**	**100.0**	**55,764**	**100.0**	**165,435**	**100.0**	**221,962**	**100.0**

3c. The Collision Location

Table 3.11 **Road Jurisdiction by Class of Collision 1999**

Road Jurisdiction	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Municipal (Excl Twp. Rd.)	224	32,018	93,821	**126,063**
Provincial Highway	256	8,749	28,134	**37,139**
Township	65	2,187	6,420	**8,672**
County or District	82	2,600	8,535	**11,217**
Regional Municipality	131	10,097	28,132	**38,360**
Federal	1	91	308	**400**
Other	4	22	85	**111**
Total	**763**	**55,764**	**165,435**	**221,962**

Table 3.12 **Road Jurisdiction for All Collisions 1988-1999**

Road Jurisdiction*	Year 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Municipal	159,228	139,926	117,218	112,651	117,800	119,421	117,478	114,848	112,980	123,423	123,112	126,063	**1,484,148**
Provincial	44,772	48,944	43,513	44,234	46,537	48,275	48,895	46,365	46,867	41,947	33,590	37,139	**531,078**
Township	12,277	11,882	10,684	10,332	10,777	10,667	10,497	9,774	9,236	9,557	8,696	8,672	**123,051**
County or District	7,527	8,773	8,582	8,482	9,186	9,076	8,839	8,815	8,381	9,574	11,114	11,217	**109,566**
Regional Municipality	3,620	36,237	39,004	36,956	38,810	40,230	40,165	38,279	36,738	36,341	36,295	38,360	**421,035**
Federal**	748	940	913	769	899	863	825	753	662	504	392	400	**8,668**
Other	226	336	274	245	240	302	297	251	160	154	157	111	**2,753**
Total	**228,398**	**247,038**	**220,188**	**213,669**	**224,249**	**228,834**	**226,996**	**219,085**	**215,024**	**221,500**	**213,356**	**221,962**	**2,680,299**

* Collisions may not be comaparable across the different years due to transfer of highways between jurisdictions.

** Since January 1, 1988, the Motor Vehicle Accident Report form allows the recording of jurisdiction for federal roads.

Table 3.13 **Collision Location by Class of Collision 1999**

Road Location	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
Non-intersection	458	60.0	19,461	34.9	65,519	39.5	**85,438**	**38.5**
Intersection Related	85	11.2	13,337	23.9	38,220	23.1	**51,642**	**23.3**
At Intersection	137	18.0	15,844	28.4	33,673	20.4	**49,654**	**22.4**
At/Near Private Drive	53	6.9	6,559	11.8	25,944	15.7	**32,556**	**14.7**
At Railway	11	1.4	96	0.2	320	0.2	**427**	**0.2**
Underpass or Tunnel	1	0.1	60	0.1	285	0.2	**346**	**0.2**
Overpass or Bridge	12	1.6	305	0.5	1,104	0.7	**1,421**	**0.6**
Other	6	0.8	102	0.2	370	0.2	**478**	**0.2**
Total	**763**	**100.0**	**55,764**	**100.0**	**165,435**	**100.0**	**221,962**	**100.0**

Table 3.14 **Road Surface Condition by Class of Collision 1999**

Road Surface Condition	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
Dry	568	74.4	39,858	71.6	108,596	65.8	**149,022**	**67.1**
Wet	118	15.5	10,051	18.0	30,822	18.6	**40,991**	**18.5**
Loose Snow	18	2.4	1,615	2.9	8,135	4.9	**9,768**	**4.4**
Slush	10	1.3	1,126	2.0	4,382	2.6	**5,518**	**2.5**
Packed Snow	17	2.2	1,129	2.0	5,727	3.5	**6,873**	**3.1**
Ice	23	3.0	1,535	2.8	6,343	3.8	**7,901**	**3.6**
Mud	0	0.0	12	0.0	60	0.0	**72**	**0.0**
Loose Sand or Gravel	4	0.5	285	0.5	808	0.5	**1,097**	**0.5**
Spilled Liquid	0	0.0	17	0.0	38	0.0	**55**	**0.0**
Other	5	0.7	136	0.2	524	0.3	**665**	**0.3**
Total	**763**	**100.0**	**55,764**	**100.0**	**165,435**	**100.0**	**221,962**	**100.0**

4 Place of Collision in Ontario

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

4. Place of Collision in Ontario

Table 4.1

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
ONTARIO		**10,341,673**	**221,962**	**763**	**55,764**	**165,435**	**868**	**84,107**	**7,017,511****
BLIND RIVER, T		3,521	31	0	5	26	0	5	
ELLIOT LAKE, C	M	11,565	74	1	14	59	1	18	
MICHIPICOTEN, TP	M	3,419	1	0	0	1	0	0	
SAULT STE. MARIE, C	M	75,463	1,539	2	324	1,213	2	467	
PROVINCIAL HIGHWAY			623	7	145	471	14	231	
OTHER AREAS		13,422	231	1	62	168	1	115	
ALGOMA		**108,725**	**2,499**	**11**	**550**	**1,938**	**18**	**836**	**87,343**
BRANTFORD, C	M	80,436	1,610	1	298	1,311	1	404	
PROVINCIAL HIGHWAY			191	2	62	127	2	105	
OTHER AREAS		8,321	606	8	152	446	8	252	
BRANT		**109,407**	**2,407**	**11**	**512**	**1,884**	**11**	**761**	**79,284**
KINCARDINE, TP	M	11,231	101	1	26	74	1	32	
PROVINCIAL HIGHWAY			177	1	47	129	1	83	
OTHER AREAS		28,280	709	5	177	527	5	272	
BRUCE		**61,568**	**987**	**7**	**250**	**730**	**7**	**387**	**51,825**
COCHRANE, T		4,357	45	0	5	40	0	6	
HEARST, T		5,471	64	1	11	52	1	13	
KAPUSKASING, T	M	9,501	87	0	17	70	0	26	
SMOOTH ROCK FALLS, T		1,823	12	0	0	12	0	0	
TIMMINS, C	M	45,845	650	1	173	476	1	248	
PROVINCIAL HIGHWAY			400	4	100	296	4	147	
OTHER AREAS		15,274	250	1	75	174	1	120	
COCHRANE		**82,271**	**1,508**	**7**	**381**	**1,120**	**7**	**560**	**63,222**
AMARANTH, TP		3,234	36	1	10	25	1	21	
MELANCTHON, TP		2,360	22	0	6	16	0	7	
MONO, T		6,045	67	1	24	42	1	36	
MULMUR, TP		2,627	14	0	4	10	0	6	
ORANGEVILLE, T	M	20,142	309	0	51	258	0	70	
SHELBURNE, T	M	3,375	40	0	4	36	0	4	
PROVINCIAL HIGHWAY			86	3	24	59	3	46	
OTHER AREAS		4,511	371	1	122	248	1	222	
DUFFERIN		**42,294**	**945**	**6**	**245**	**694**	**6**	**412**	**34,789**
AJAX, T		63,552	725	4	173	548	4	267	
BROCK, TP		11,637	102	0	23	79	0	34	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
OSHAWA, C		131,952	2,112	3	566	1,543	3	844	
PICKERING, T		76,440	988	3	233	752	3	365	
SCUGOG, TP		18,505	260	0	58	202	0	94	
UXBRIDGE, TP		15,810	337	5	103	229	5	159	
WHITBY, T		73,303	997	2	284	711	2	447	
PROVINCIAL HIGHWAY			1,509	10	366	1,133	11	577	
OTHER AREAS		58,712	781	8	214	559	9	339	
DURHAM		**449,911**	**7,811**	**35**	**2,020**	**5,756**	**37**	**3,126**	**311,294**
AYLMER, T	M	6,476	83	0	15	68	0	22	
BAYHAM, TP		5,725	66	1	14	51	1	17	
MALAHIDE, TP		8,039	94	0	30	64	0	46	
ST THOMAS, C	M	31,107	394	0	105	289	0	159	
PROVINCIAL HIGHWAY			168	1	50	117	1	82	
OTHER AREAS		20,178	436	4	115	317	5	200	
ELGIN		**75,740**	**1,241**	**6**	**329**	**906**	**7**	**526**	**61,584**
AMHERSTBURG, T	M	19,707	154	1	34	119	1	43	
ESSEX, T	M	15,352	188	0	31	157	0	46	
KINGSVILLE, T	M	18,407	113	1	35	77	1	55	
LEAMINGTON, T	M	25,042	429	3	67	359	3	101	
TECUMSEH, T		23,462	243	0	50	193	0	75	
WINDSOR, C	M	200,062	4,709	6	993	3,710	6	1,385	
PROVINCIAL HIGHWAY			312	8	92	214	12	232	
OTHER AREAS		53,413	1,024	4	286	734	5	477	
ESSEX		**352,257**	**7,172**	**21**	**1,588**	**5,563**	**28**	**2,414**	**240,375**
KINGSTON, C	M	110,327	1,748	4	390	1,354	4	532	
PROVINCIAL HIGHWAY			292	2	90	200	2	165	
OTHER AREAS		21,327	474	5	118	351	5	177	
FRONTENAC		**131,654**	**2,514**	**11**	**598**	**1,905**	**11**	**874**	**88,643**
BENTINCK, TP		3,422	46	1	8	37	2	11	
DURHAM, T	M	2,507	25	0	5	20	0	5	
GLENELG, TP		2,092	15	0	1	14	0	1	
HANOVER, T	M	6,525	94	0	20	74	0	34	
HOLLAND, TP		2,840	17	0	5	12	0	10	
KEPPEL, TP		4,355	30	0	10	20	0	14	
MEAFORD, T	M	4,399	34	0	10	24	0	14	
NORMANBY, TP		2,534	23	0	9	14	0	24	
OSPREY, TP		2,099	13	0	2	11	0	2	
OWEN SOUND, C	M	20,380	338	0	96	242	0	165	

4. Place of Collision in Ontario

Table 4.1

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
ONTARIO		**10,341,673**	**221,962**	**763**	**55,764**	**165,435**	**868**	**84,107**	**7,017,511****
BLIND RIVER, T		3,521	31	0	5	26	0	5	
ELLIOT LAKE, C	M	11,565	74	1	14	59	1	18	
MICHIPICOTEN, TP	M	3,419	1	0	0	1	0	0	
SAULT STE. MARIE, C	M	75,463	1,539	2	324	1,213	2	467	
PROVINCIAL HIGHWAY			623	7	145	471	14	231	
OTHER AREAS		13,422	231	1	62	168	1	115	
ALGOMA		**108,725**	**2,499**	**11**	**550**	**1,938**	**18**	**836**	**87,343**
BRANTFORD, C	M	80,436	1,610	1	298	1,311	1	404	
PROVINCIAL HIGHWAY			191	2	62	127	2	105	
OTHER AREAS		8,321	606	8	152	446	8	252	
BRANT		**109,407**	**2,407**	**11**	**512**	**1,884**	**11**	**761**	**79,284**
KINCARDINE, TP	M	11,231	101	1	26	74	1	32	
PROVINCIAL HIGHWAY			177	1	47	129	1	83	
OTHER AREAS		28,280	709	5	177	527	5	272	
BRUCE		**61,568**	**987**	**7**	**250**	**730**	**7**	**387**	**51,825**
COCHRANE, T		4,357	45	0	5	40	0	6	
HEARST, T		5,471	64	1	11	52	1	13	
KAPUSKASING, T	M	9,501	87	0	17	70	0	26	
SMOOTH ROCK FALLS, T		1,823	12	0	0	12	0	0	
TIMMINS, C	M	45,845	650	1	173	476	1	248	
PROVINCIAL HIGHWAY			400	4	100	296	4	147	
OTHER AREAS		15,274	250	1	75	174	1	120	
COCHRANE		**82,271**	**1,508**	**7**	**381**	**1,120**	**7**	**560**	**63,222**
AMARANTH, TP		3,234	36	1	10	25	1	21	
MELANCTHON, TP		2,360	22	0	6	16	0	7	
MONO, T		6,045	67	1	24	42	1	36	
MULMUR, TP		2,627	14	0	4	10	0	6	
ORANGEVILLE, T	M	20,142	309	0	51	258	0	70	
SHELBURNE, T	M	3,375	40	0	4	36	0	4	
PROVINCIAL HIGHWAY			86	3	24	59	3	46	
OTHER AREAS		4,511	371	1	122	248	1	222	
DUFFERIN		**42,294**	**945**	**6**	**245**	**694**	**6**	**412**	**34,789**
AJAX, T		63,552	725	4	173	548	4	267	
BROCK, TP		11,637	102	0	23	79	0	34	

Table 4.1 **Continued**

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
OSHAWA, C		131,952	2,112	3	566	1,543	3	844	
PICKERING, T		76,440	988	3	233	752	3	365	
SCUGOG, TP		18,505	260	0	58	202	0	94	
UXBRIDGE, TP		15,810	337	5	103	229	5	159	
WHITBY, T		73,303	997	2	284	711	2	447	
PROVINCIAL HIGHWAY			1,509	10	366	1,133	11	577	
OTHER AREAS		58,712	781	8	214	559	9	339	
DURHAM		**449,911**	**7,811**	**35**	**2,020**	**5,756**	**37**	**3,126**	**311,294**
AYLMER, T	M	6,476	83	0	15	68	0	22	
BAYHAM, TP		5,725	66	1	14	51	1	17	
MALAHIDE, TP		8,039	94	0	30	64	0	46	
ST THOMAS, C	M	31,107	394	0	105	289	0	159	
PROVINCIAL HIGHWAY			168	1	50	117	1	82	
OTHER AREAS		20,178	436	4	115	317	5	200	
ELGIN		**75,740**	**1,241**	**6**	**329**	**906**	**7**	**526**	**61,584**
AMHERSTBURG, T	M	19,707	154	1	34	119	1	43	
ESSEX, T	M	15,352	188	0	31	157	0	46	
KINGSVILLE, T	M	18,407	113	1	35	77	1	55	
LEAMINGTON, T	M	25,042	429	3	67	359	3	101	
TECUMSEH, T		23,462	243	0	50	193	0	75	
WINDSOR, C	M	200,062	4,709	6	993	3,710	6	1,385	
PROVINCIAL HIGHWAY			312	6	92	214	12	232	
OTHER AREAS		53,413	1,024	4	286	734	5	477	
ESSEX		**352,257**	**7,172**	**21**	**1,588**	**5,563**	**28**	**2,414**	**240,375**
KINGSTON, C	M	110,327	1,748	4	390	1,354	4	532	
PROVINCIAL HIGHWAY			292	2	90	200	2	165	
OTHER AREAS		21,327	474	5	118	351	5	177	
FRONTENAC		**131,654**	**2,514**	**11**	**598**	**1,905**	**11**	**874**	**88,643**
BENTINCK, TP		3,422	46	1	8	37	2	11	
DURHAM, T	M	2,507	25	0	5	20	0	5	
GLENELG, TP		2,092	15	0	1	14	0	1	
HANOVER, T	M	6,525	94	0	20	74	0	34	
HOLLAND, TP		2,840	17	0	5	12	0	10	
KEPPEL, TP		4,355	30	0	10	20	0	14	
MEAFORD, T	M	4,399	34	0	10	24	0	14	
NORMANBY, TP		2,534	23	0	9	14	0	24	
OSPREY, TP		2,099	13	0	2	11	0	2	
OWEN SOUND, C	M	20,380	338	0	96	242	0	165	

Table 4.1 Continued

Location	Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
PROTON, TP	1,868	14	0	2	12	0	2	
SULLIVAN, TP	2,644	22	1	7	14	1	13	
SYDENHAM, TP	3,017	22	0	3	19	0	3	
PROVINCIAL HIGHWAY		305	4	71	230	4	120	
OTHER AREAS	23,888	590	6	144	440	6	239	
GREY	**82,570**	**1,588**	**12**	**393**	**1,183**	**13**	**657**	**59,448**
DELHI, TP	15,154	210	2	60	148	4	98	
DUNNVILLE, T	11,781	129	0	31	98	0	51	
HALDIMAND, T	21,670	172	2	61	109	4	93	
NANTICOKE, C	22,000	260	2	76	182	2	127	
NORFOLK, TP	11,019	139	3	35	101	3	47	
SIMCOE, T	14,623	283	0	60	223	0	95	
PROVINCIAL HIGHWAY		203	2	68	133	4	116	
OTHER AREAS	0	176	0	50	126	0	81	
HALDIMAND-NORFOLK	**96,247**	**1,572**	**11**	**441**	**1,120**	**17**	**708**	**82,359**
ANSON,HINDON & MINDEN, T	3,185	30	0	3	27	0	3	
DYSART ET AL, TP	4,671	36	0	5	31	0	8	
PROVINCIAL HIGHWAY		182	2	53	127	4	97	
OTHER AREAS	6,086	202	0	51	151	0	76	
HALIBURTON	**13,942**	**450**	**2**	**112**	**336**	**4**	**184**	**13,060**
BURLINGTON, C	132,772	1,958	3	385	1,570	3	569	
HALTON HILLS, T	41,540	495	5	110	380	7	178	
MILTON, T	31,406	578	5	153	420	5	230	
OAKVILLE, T	123,895	1,768	4	293	1,471	4	410	
PROVINCIAL HIGHWAY		2,007	8	385	1,614	8	636	
OTHER AREAS	0	58	0	16	42	0	21	
HALTON	**329,613**	**6,864**	**25**	**1,342**	**5,497**	**27**	**2,044**	**246,929**
ANCASTER, T	23,920	213	1	83	129	1	134	
DUNDAS, T	23,036	139	0	51	88	0	74	
FLAMBOROUGH, T	33,604	232	1	91	140	1	144	
GLANBROOK, TP	10,625	115	2	50	63	2	79	
HAMILTON, C	316,190	3,959	5	1,604	2,350	5	2,328	
STONEY CREEK, C	54,166	466	1	216	249	1	350	
PROVINCIAL HIGHWAY		885	7	230	648	8	343	
OTHER AREAS	0	52	0	17	35	0	19	
HAMILTON-WENTWORTH	**461,541**	**6,061**	**17**	**2,342**	**3,702**	**18**	**3,471**	**277,854**
BANCROFT, T	3,512	65	0	18	47	0	44	
BELLEVILLE, C M	42,722	1,044	7	249	788	7	399	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
DESERONTO, T	M	1,651	16	1	1	14	1	1	
MARMORA LAKE, TP		2,234	4	0	0	4	0	0	
TYENDINAGA, TP		3,355	48	0	13	35	0	22	
PROVINCIAL HIGHWAY			557	9	130	418	10	236	
OTHER AREAS		66,417	876	6	223	647	7	354	
HASTINGS		**118,643**	**2,610**	**23**	**634**	**1,953**	**25**	**1,056**	**94,377**
CLINTON, T	M	3,040	43	0	6	37	0	10	
COLBORNE, TP		2,106	11	0	4	7	0	6	
EXETER, T	M	4,354	60	0	14	46	0	24	
GODERICH, T	M	7,428	117	0	17	100	0	24	
GODERICH, TP		2,630	26	1	2	23	1	4	
GREY, TP		1,966	11	0	3	8	0	6	
HOWICK, TP		3,495	11	0	3	8	0	3	
MORRIS, TP		1,770	10	0	1	9	0	2	
SEAFORTH, T	M	2,288	16	0	3	13	0	3	
STEPHEN, TP		4,245	28	0	9	19	0	14	
TUCKERSMITH, TP		3,038	12	0	2	10	0	2	
TURNBERRY, TP		1,741	14	0	4	10	0	5	
WINGHAM, T	M	2,883	33	0	4	29	0	5	
PROVINCIAL HIGHWAY			168	2	35	131	3	70	
OTHER AREAS		17,764	491	5	119	367	6	226	
HURON		**58,748**	**1,051**	**8**	**226**	**817**	**10**	**404**	**41,955**
DRYDEN, C	M	7,731	98	0	12	86	0	16	
IGNACE, TP		1,499	5	0	0	5	0	0	
JAFFRAY AND MELICK, TP		3,970	60	0	7	53	0	10	
KEEWATIN, T		1,986	32	0	2	30	0	2	
KENORA, T	M	9,488	242	0	38	204	0	55	
RED LAKE, T		4,082	15	0	2	13	0	3	
SIOUX LOOKOUT, T		4,757	47	0	10	37	0	12	
PROVINCIAL HIGHWAY			759	10	144	605	11	228	
OTHER AREAS		2,861	169	1	34	134	1	47	
KENORA		**36,374**	**1,427**	**11**	**249**	**1,167**	**12**	**373**	**39,155**
PROVINCIAL HIGHWAY		0	228	13	64	151	16	177	
OTHER AREAS		103,277	1,497	9	438	1,050	11	641	
KENT		**103,277**	**1,725**	**22**	**502**	**1,201**	**27**	**818**	**82,675**
BOSANQUET, T		5,282	28	0	10	18	0	15	
BROOKE, TP		1,827	13	0	8	5	0	12	
ENNISKILLEN, TP		3,212	25	0	8	17	0	17	

Table 4.1 Continued

Location	Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
PROTON, TP	1,868	14	0	2	12	0	2	
SULLIVAN, TP	2,644	22	1	7	14	1	13	
SYDENHAM, TP	3,017	22	0	3	19	0	3	
PROVINCIAL HIGHWAY		305	4	71	230	4	120	
OTHER AREAS	23,888	590	6	144	440	6	239	
GREY	**82,570**	**1,588**	**12**	**393**	**1,183**	**13**	**657**	**59,448**
DELHI, TP	15,154	210	2	60	148	4	98	
DUNNVILLE, T	11,781	129	0	31	98	0	51	
HALDIMAND, T	21,670	172	2	61	109	4	93	
NANTICOKE, C	22,000	260	2	76	182	2	127	
NORFOLK, TP	11,019	139	3	35	101	3	47	
SIMCOE, T	14,623	283	0	60	223	0	95	
PROVINCIAL HIGHWAY		203	2	68	133	4	116	
OTHER AREAS	0	176	0	50	126	0	81	
HALDIMAND-NORFOLK	**96,247**	**1,572**	**11**	**441**	**1,120**	**17**	**708**	**82,359**
ANSON,HINDON & MINDEN, T	3,185	30	0	3	27	0	3	
DYSART ET AL, TP	4,671	36	0	5	31	0	8	
PROVINCIAL HIGHWAY		182	2	53	127	4	97	
OTHER AREAS	6,086	202	0	51	151	0	76	
HALIBURTON	**13,942**	**450**	**2**	**112**	**336**	**4**	**184**	**13,060**
BURLINGTON, C	132,772	1,958	3	385	1,570	3	569	
HALTON HILLS, T	41,540	495	5	110	380	7	178	
MILTON, T	31,406	578	5	153	420	5	230	
OAKVILLE, T	123,895	1,768	4	293	1,471	4	410	
PROVINCIAL HIGHWAY		2,007	8	385	1,614	8	636	
OTHER AREAS	0	58	0	16	42	0	21	
HALTON	**329,613**	**6,864**	**25**	**1,342**	**5,497**	**27**	**2,044**	**246,929**
ANCASTER, T	23,920	213	1	83	129	1	134	
DUNDAS, T	23,036	139	0	51	88	0	74	
FLAMBOROUGH, T	33,604	232	1	91	140	1	144	
GLANBROOK, TP	10,625	115	2	50	63	2	79	
HAMILTON, C	316,190	3,959	5	1,604	2,350	5	2,328	
STONEY CREEK, C	54,166	466	1	216	249	1	350	
PROVINCIAL HIGHWAY		885	7	230	648	8	343	
OTHER AREAS	0	52	0	17	35	0	19	
HAMILTON-WENTWORTH	**461,541**	**6,061**	**17**	**2,342**	**3,702**	**18**	**3,471**	**277,854**
BANCROFT, T	3,512	65	0	18	47	0	44	
BELLEVILLE, C M	42,722	1,044	7	249	788	7	399	

Table 4.1 **Continued**

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
DESERONTO, T	M	1,651	16	1	1	14	1	1	
MARMORA LAKE, TP		2,234	4	0	0	4	0	0	
TYENDINAGA, TP		3,355	48	0	13	35	0	22	
PROVINCIAL HIGHWAY			557	9	130	418	10	236	
OTHER AREAS		66,417	876	6	223	647	7	354	
HASTINGS		**118,643**	**2,610**	**23**	**634**	**1,953**	**25**	**1,056**	**94,377**
CLINTON, T	M	3,040	43	0	6	37	0	10	
COLBORNE, TP		2,106	11	0	4	7	0	6	
EXETER, T	M	4,354	60	0	14	46	0	24	
GODERICH, T	M	7,428	117	0	17	100	0	24	
GODERICH, TP		2,630	26	1	2	23	1	4	
GREY, TP		1,966	11	0	3	8	0	6	
HOWICK, TP		3,495	11	0	3	8	0	3	
MORRIS, TP		1,770	10	0	1	9	0	2	
SEAFORTH, T	M	2,288	16	0	3	13	0	3	
STEPHEN, TP		4,245	28	0	9	19	0	14	
TUCKERSMITH, TP		3,038	12	0	2	10	0	2	
TURNBERRY, TP		1,741	14	0	4	10	0	5	
WINGHAM, T	M	2,883	33	0	4	29	0	5	
PROVINCIAL HIGHWAY			168	2	35	131	3	70	
OTHER AREAS		17,764	491	5	119	367	6	226	
HURON		**58,748**	**1,051**	**8**	**226**	**817**	**10**	**404**	**41,955**
DRYDEN, C	M	7,731	98	0	12	86	0	16	
IGNACE, TP		1,499	5	0	0	5	0	0	
JAFFRAY AND MELICK, TP		3,970	60	0	7	53	0	10	
KEEWATIN, T		1,986	32	0	2	30	0	2	
KENORA, T	M	9,488	242	0	38	204	0	55	
RED LAKE, T		4,082	15	0	2	13	0	3	
SIOUX LOOKOUT, T		4,757	47	0	10	37	0	12	
PROVINCIAL HIGHWAY			759	10	144	605	11	228	
OTHER AREAS		2,861	169	1	34	134	1	47	
KENORA		**36,374**	**1,427**	**11**	**249**	**1,167**	**12**	**373**	**39,155**
PROVINCIAL HIGHWAY		0	228	13	64	151	16	177	
OTHER AREAS		103,277	1,497	9	438	1,050	11	641	
KENT		**103,277**	**1,725**	**22**	**502**	**1,201**	**27**	**818**	**82,675**
BOSANQUET, T		5,282	28	0	10	18	0	15	
BROOKE, TP		1,827	13	0	8	5	0	12	
ENNISKILLEN, TP		3,212	25	0	8	17	0	17	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Persons Injured	Motor Vehicle Registrations
FOREST T		2,844	16	0	2	14	0	5	
MOORE TP		10,776	56	2	15	39	2	21	
PETROLIA T	M	4,792	42	0	2	40	0	3	
PLYMPTON TP		5,038	29	1	13	15	1	26	
POINT EDWARD VL	M	2,237	25	0	4	21	0	7	
SARNIA-CLEARWATER C	M	70,383	1,004	7	249	748	7	389	
SOMBRA TP		4,149	28	0	7	19	0	12	
WARWICK TP		4,060	23	1	5	17	1	9	
WYOMING VL		2,051	7	0	4	3	0	4	
PROVINCIAL HIGHWAY			188	2	54	132	2	84	
OTHER AREAS		6,614	343	2	101	240	2	164	
LAMBTON		**123,270**	**1,825**	**15**	**482**	**1,328**	**15**	**768**	**91,088**
CARLETON PLACE T	M	8,296	87	0	12	75	0	21	
MONTAGUE TP		3,051	26	0	3	23	0	3	
PERTH T	M	5,808	142	0	21	121	0	28	
SMITHS FALLS T	M	8,969	156	0	33	123	0	49	
PROVINCIAL HIGHWAY			172	4	38	130	10	73	
OTHER AREAS		31,347	668	4	108	556	4	177	
LANARK		**57,471**	**1,251**	**8**	**215**	**1,028**	**14**	**351**	**43,953**
AUGUSTA TP		7,327	39	0	6	33	0	8	
BROCKVILLE C	M	20,942	352	1	60	291	1	83	
CARDINAL VL	M	1,629	4	0	1	3	0	1	
EDWARDSBURG TP		4,640	25	0	4	21	0	9	
ELIZABETHTOWN TP		7,259	45	0	8	37	0	12	
F OF LEEDS and LANSDOWNE TP		4,779	26	0	11	15	0	21	
FRONT OF YONGE TP		2,417	16	0	8	8	0	9	
KITLEY TP		2,359	19	0	5	14	0	13	
PRESCOTT T	M	3,995	70	0	17	53	0	21	
R LEEDS AND LANSDOWNE TP		2,670	10	0	2	8	0	3	
R YONGE AND ESCOTT TP		1,948	20	0	2	18	0	2	
PROVINCIAL HIGHWAY			552	8	130	414	9	243	
OTHER AREAS		31,493	789	3	173	613	4	239	
LEEDS & GRENVILLE		**91,458**	**1,967**	**12**	**427**	**1,528**	**14**	**664**	**70,397**
PROVINCIAL HIGHWAY			261	2	78	181	2	123	
OTHER AREAS		35,629	506	2	106	398	2	152	
LENNOX & ADDINGTON		**35,629**	**767**	**4**	**184**	**579**	**4**	**275**	**25,532**
PROVINCIAL HIGHWAY		0	194	3	40	151	3	74	
OTHER AREAS		7,274	120	1	23	96	1	33	
MANITOULIN		**7,274**	**314**	**4**	**63**	**247**	**4**	**107**	**9,805**
ADELAIDE TP		1,942	19	1	6	12	1	7	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
CARADOC, TP		6,031	70	0	25	45	0	42	
EKFRID, TP		2,236	18	1	2	15	1	4	
GLENCOE, VL		2,078	21	0	3	18	0	4	
LUCAN BIDDULPH, TP		4,085	31	0	6	25	0	6	
LONDON, C	M	330,030	7,103	7	2,121	4,975	8	3,224	
MCGILLIVRAY, TP		1,807	9	0	8	1	0	11	
NORTH DORCHESTER, TP		8,382	160	2	39	119	2	61	
WEST NISSOURI, TP		3,317	43	0	13	30	0	17	
STRATHROY, T	M	11,495	120	0	28	92	0	45	
PROVINCIAL HIGHWAY			391	4	69	296	4	162	
OTHER AREAS		20,810	638	4	194	440	5	316	
MIDDLESEX		**392,213**	**8,623**	**19**	**2,534**	**6,070**	**21**	**3,899**	**253,095**
BRACEBRIDGE, T		11,856	167	0	35	132	0	47	
GRAVENHURST, T		8,870	126	0	23	103	0	28	
HUNTSVILLE, T		14,588	170	0	35	135	0	43	
LAKE OF BAYS, TP		2,533	16	0	6	10	0	7	
MUSKOKA LAKES, TP		5,430	77	1	18	58	1	24	
PROVINCIAL HIGHWAY			476	4	116	35	5	199	
OTHER AREAS		2,069	288	0	55	554	0	76	
MUSKOKA		**45,346**	**1,320**	**5**	**288**	**1,027**	**6**	**424**	**42,584**
FORT ERIE, T		26,717	433	2	101	330	2	164	
GRIMSBY, T		19,262	242	0	54	188	0	88	
LINCOLN, TP		18,175	254	1	73	180	1	118	
NIAGARA-ON-THE-LAKE, T		12,580	209	1	67	141	1	110	
NIAGARA FALLS, C		75,498	1,584	6	339	1,239	6	550	
PELHAM, T		14,061	231	1	50	180	1	86	
PORT COLBORNE, C		18,182	249	0	53	196	0	75	
ST CATHARINES, C		127,442	2,182	6	434	742	6	651	
THOROLD, C		17,846	223	1	58	164	1	94	
WAINFLEET, TP		6,069	68	2	20	46	2	40	
WELLAND, C		47,617	802	1	181	620	1	267	
WEST LINCOLN, TP		11,238	171	3	58	110	3	82	
PROVINCIAL HIGHWAY			1,093	9	302	782	9	515	
OTHER AREAS		0	230	3	45	1,182	3	68	
NIAGARA		**394,687**	**7,971**	**36**	**1,835**	**6,100**	**36**	**2,908**	**283,029**
EAST FERRIS, TP		4,292	29	0	4	25	0	6	
MATTAWA T		2,332	13	0	3	10	0	4	
NORTH BAY C	M	54,940	665	1	165	499	1	232	
PROVINCIAL HIGHWAY			586	7	161	418	9	286	
OTHER AREAS		10,109	201	0	61	140	0	102	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
FOREST, T		2,849	16	0	2	14	0	5	
MOORE, TP		10,776	56	2	15	39	2	21	
PETROLIA, T	M	4,792	42	0	2	40	0	3	
PLYMPTON, TP		5,038	29	1	13	15	1	26	
POINT EDWARD, VL	M	2,237	25	0	4	21	0	7	
SARNIA-CLEARWATER, C	M	70,383	1,004	7	249	748	7	389	
SOMBRA, TP		4,149	26	0	7	19	0	12	
WARWICK, TP		4,060	23	1	5	17	1	9	
WYOMING, VL		2,051	7	0	4	3	0	4	
PROVINCIAL HIGHWAY			188	2	54	132	2	84	
OTHER AREAS		6,614	343	2	101	240	2	164	
LAMBTON		**123,270**	**1,825**	**15**	**482**	**1,328**	**15**	**768**	**91,088**
CARLETON PLACE, T	M	8,296	87	0	12	75	0	21	
MONTAGUE, TP		3,051	26	0	3	23	0	3	
PERTH, T	M	5,808	142	0	21	121	0	28	
SMITHS FALLS, T	M	8,969	156	0	33	123	0	49	
PROVINCIAL HIGHWAY			172	4	38	130	10	73	
OTHER AREAS		31,347	668	4	108	556	4	177	
LANARK		**57,471**	**1,251**	**8**	**215**	**1,028**	**14**	**351**	**43,953**
AUGUSTA, TP		7,327	39	0	6	33	0	8	
BROCKVILLE, C	M	20,942	352	1	60	291	1	83	
CARDINAL, VL	M	1,629	4	0	1	3	0	1	
EDWARDSBURG, TP		4,640	25	0	4	21	0	9	
ELIZABETHTOWN, TP		7,259	45	0	8	37	0	12	
F OF LEEDS and LANSDOWNE, TP		4,779	26	0	11	15	0	21	
FRONT OF YONGE, TP		2,417	16	0	8	8	0	9	
KITLEY, TP		2,359	19	0	5	14	0	13	
PRESCOTT, T	M	3,995	70	0	17	53	0	21	
R LEEDS AND LANSDOWNE, TP		2,670	10	0	2	8	0	3	
R YONGE AND ESCOTT, TP		1,948	20	0	2	18	0	2	
PROVINCIAL HIGHWAY			552	8	130	414	9	243	
OTHER AREAS		31,493	789	3	173	613	4	239	
LEEDS & GRENVILLE		**91,458**	**1,967**	**12**	**427**	**1,528**	**14**	**664**	**70,397**
PROVINCIAL HIGHWAY			261	2	78	181	2	123	
OTHER AREAS		35,629	506	2	106	398	2	152	
LENNOX & ADDINGTON		**35,629**	**767**	**4**	**184**	**579**	**4**	**275**	**25,532**
PROVINCIAL HIGHWAY		0	194	3	40	151	3	74	
OTHER AREAS		7,274	120	1	23	96	1	33	
MANITOULIN		**7,274**	**314**	**4**	**63**	**247**	**4**	**107**	**9,805**
ADELAIDE, TP		1,942	19	1	6	12	1	7	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
CARADOC, TP		6,031	70	0	25	45	0	42	
EKFRID, TP		2,236	18	1	2	15	1	4	
GLENCOE, VL		2,078	21	0	3	18	0	4	
LUCAN BIDDULPH, TP		4,085	31	0	6	25	0	6	
LONDON, C	M	330,030	7,103	7	2,121	4,975	8	3,224	
MCGILLIVRAY, TP		1,807	9	0	8	1	0	11	
NORTH DORCHESTER, TP		8,382	160	2	39	119	2	61	
WEST NISSOURI, TP		3,317	43	0	13	30	0	17	
STRATHROY, T	M	11,495	120	0	28	92	0	45	
PROVINCIAL HIGHWAY			391	4	89	298	4	162	
OTHER AREAS		20,810	638	4	194	440	5	316	
MIDDLESEX		**392,213**	**8,623**	**19**	**2,534**	**6,070**	**21**	**3,899**	**253,095**
BRACEBRIDGE, T		11,856	167	0	35	132	0	47	
GRAVENHURST, T		8,870	126	0	23	103	0	28	
HUNTSVILLE, T		14,588	170	0	35	135	0	43	
LAKE OF BAYS, TP		2,533	16	0	6	10	0	7	
MUSKOKA LAKES, TP		5,430	77	1	18	58	1	24	
PROVINCIAL HIGHWAY			476	4	116	35	5	199	
OTHER AREAS		2,069	288	0	55	554	0	76	
MUSKOKA		**45,346**	**1,320**	**5**	**288**	**1,027**	**6**	**424**	**42,584**
FORT ERIE, T		26,717	433	2	101	330	2	164	
GRIMSBY, T		19,262	242	0	54	188	0	88	
LINCOLN, TP		18,175	254	1	73	180	1	118	
NIAGARA-ON-THE-LAKE, T		12,580	209	1	67	141	1	110	
NIAGARA FALLS, C		75,498	1,584	6	339	1,239	6	550	
PELHAM, T		14,061	231	1	50	180	1	86	
PORT COLBORNE, C		18,182	249	0	53	196	0	75	
ST CATHARINES, C		127,442	2,182	6	434	742	6	651	
THOROLD, C		17,846	223	1	58	164	1	94	
WAINFLEET, TP		6,069	68	2	20	46	2	40	
WELLAND, C		47,617	802	1	181	620	1	267	
WEST LINCOLN, TP		11,238	171	3	58	110	3	82	
PROVINCIAL HIGHWAY			1,093	9	302	782	9	515	
OTHER AREAS		0	230	3	45	1,182	3	68	
NIAGARA		**394,687**	**7,971**	**36**	**1,835**	**6,100**	**36**	**2,908**	**283,029**
EAST FERRIS, TP		4,292	29	0	4	25	0	6	
MATTAWA T		2,332	13	0	3	10	0	4	
NORTH BAY C	M	54,940	665	1	165	499	1	232	
PROVINCIAL HIGHWAY			586	7	161	418	9	286	
OTHER AREAS		10,109	201	0	61	140	0	102	

Table 4.1 **Continued**

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
NIPISSING		**80,379**	**1,494**	**8**	**394**	**1,092**	**10**	**630**	**57,367**
BRIGHTON, TP		3,518	27	0	7	20	0	9	
BRIGHTON, T		4,401	25	0	2	23	0	3	
COBOURG, T	M	15,426	254	0	53	201	0	81	
COLBORNE, VL		1,876	8	0	1	7	0	2	
CRAMAHE, TP		3,239	22	0	8	14	0	12	
HALDIMAND, TP		4,195	20	0	4	16	0	6	
HOPE, TP		3,562	20	0	2	18	0	2	
PERCY, TP		3,098	19	0	4	15	0	6	
PORT HOPE, T	M	10,962	127	0	31	96	0	44	
PROVINCIAL HIGHWAY			428	7	123	299	7	226	
OTHER AREAS		19,228	474	4	122	347	4	191	
NORTHUMBERLAND		**69,505**	**1,424**	**11**	**357**	**1,056**	**11**	**582**	**57,588**
CUMBERLAND, TP		47,044	330	0	91	239	0	135	
WEST CARLETON, TP		16,286	207	1	44	162	1	62	
GLOUCESTER, C	M	104,397	1,079	6	271	802	7	387	
GOULBOURN, TP		19,902	193	1	45	147	1	62	
KANATA, C		48,014	576	1	93	482	1	153	
NEPEAN, C	M	116,928	1,446	3	340	1,103	3	530	
OSGOODE, TP		15,845	206	2	45	159	3	67	
OTTAWA, C	M	321,955	5,668	6	1,397	4,265	6	1,935	
RIDEAU, TP		12,231	131	1	20	110	1	32	
ROCKCLIFFE PARK, VL		2,191	17	0	5	12	0	5	
VANIER, C		17,771	219	0	52	167	0	66	
PROVINCIAL HIGHWAY			1,282	9	282	991	10	478	
OTHER AREAS		0	283	0	53	230	0	74	
OTTAWA-CARLETON		**722,564**	**11,637**	**30**	**2,738**	**8,869**	**33**	**3,986**	**418,556**
INGERSOLL, T	M	9,955	102	1	19	82	3	25	
S WEST OXFORD, TP		8,378	141	0	33	108	0	52	
TILLSONBURG, T	M	13,523	177	1	46	130	1	71	
WOODSTOCK, C	M	32,347	512	0	113	399	0	176	
ZORRA, TP		8,107	69	1	19	49	2	28	
PROVINCIAL HIGHWAY			411	4	101	306	5	150	
OTHER AREAS		25,054	508	4	137	367	4	206	
OXFORD		**97,364**	**1,920**	**11**	**468**	**1,441**	**15**	**708**	**72,850**
MCDOUGALL, TP		2,177	22	0	5	17	0	9	
PERRY, TP		1,987	13	0	3	10	0	6	
PROVINCIAL HIGHWAY			603	3	150	450	3	272	
OTHER AREAS		29,101	268	0	45	223	0	71	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision: Total Collisions	Fatal	Personal Injury	Property Damage	Persons: Killed	Injured	Motor Vehicle Registrations
PARRY SOUND		**33,265**	**906**	**3**	**203**	**700**	**3**	**358**	**34,952**
BRAMPTON, C		260,498	3,896	17	761	3,118	17	1,144	
CALEDON, T		39,837	862	7	199	656	7	344	
MISSISSAUGA, C		529,160	7,098	14	1,285	5,799	14	1,848	
PROVINCIAL HIGHWAY			2,697	11	464	2,222	12	739	
OTHER AREAS		0	283	0	21	262	0	30	
PEEL		**829,495**	**14,836**	**49**	**2,730**	**12,057**	**50**	**4,105**	**587,838**
ST. MARYS, T	M	5,776	61	0	21	40	0	22	
STRATFORD, C	M	28,002	487	0	105	382	0	158	
PROVINCIAL HIGHWAY			150	2	49	99	2	83	
OTHER AREAS		36,284	582	10	158	414	11	264	
PERTH		**70,062**	**1,280**	**12**	**333**	**935**	**13**	**527**	**50,365**
LAKEFIELD, VL	M	2,321	26	0	9	17	0	11	
PETERBOROUGH, C	M	68,748	925	3	318	604	3	470	
PROVINCIAL HIGHWAY			345	8	96	241	11	169	
OTHER AREAS		46,918	726	3	184	539	3	299	
PETERBOROUGH		**117,987**	**2,022**	**14**	**607**	**1,401**	**17**	**949**	**88,699**
CASSELMAN, VL		2,838	32	1	5	26	1	5	
EAST HAWKESBURY, TP		3,242	6	0	4	2	0	5	
HAWKESBURY, T	M	10,266	174	0	37	137	0	48	
RUSSELL, TP		11,652	52	0	14	38	0	19	
PROVINCIAL HIGHWAY			184	3	52	129	4	95	
OTHER AREAS		45,633	622	3	178	441	3	249	
PRESCOTT & RUSSELL		**73,631**	**1,070**	**7**	**290**	**773**	**8**	**421**	**62,365**
PROVINCIAL HIGHWAY			66	0	19	47	0	34	
OTHER AREAS		22,795	410	2	68	340	3	97	
PRINCE EDWARD		**22,795**	**476**	**2**	**87**	**387**	**3**	**131**	**18,970**
ATIKOKAN, TP	M	3,493	31	0	2	29	0	3	
FORT FRANCES, T	M	8,312	160	0	28	132	0	37	
PROVINCIAL HIGHWAY			234	2	44	188	2	67	
OTHER AREAS		6,392	83	1	23	59	1	38	
RAINY RIVER		**18,197**	**508**	**3**	**97**	**408**	**3**	**145**	**17,442**
ALICE & FRASER, TP		4,043	25	0	11	14	0	19	
ARNPRIOR, T		6,552	66	0	18	48	0	26	
DEEP RIVER, T	M	4,203	9	0	0	9	0	0	
HORTON, TP		2,443	10	0	5	5	0	6	
PEMBROKE, C	M	13,492	227	1	61	165	1	81	
PETAWAWA, T		15,075	45	0	14	31	0	28	
RENFREW, T	M	7,642	81	0	21	60	0	28	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
NIPISSING		**80,379**	**1,494**	**8**	**394**	**1,092**	**10**	**630**	**57,367**
BRIGHTON, TP		3,518	27	0	7	20	0	9	
BRIGHTON, T		4,401	25	0	2	23	0	3	
COBOURG, T	M	15,426	254	0	53	201	0	81	
COLBORNE, VL		1,876	8	0	1	7	0	2	
CRAMAHE, TP		3,239	22	0	8	14	0	12	
HALDIMAND, TP		4,195	20	0	4	16	0	6	
HOPE, TP		3,562	20	0	2	18	0	2	
PERCY, TP		3,098	19	0	4	15	0	6	
PORT HOPE, T	M	10,962	127	0	31	96	0	44	
PROVINCIAL HIGHWAY			428	7	123	299	7	226	
OTHER AREAS		19,228	474	4	122	347	4	191	
NORTHUMBERLAND		**69,505**	**1,424**	**11**	**357**	**1,056**	**11**	**582**	**57,588**
CUMBERLAND, TP		47,044	330	0	91	239	0	135	
WEST CARLETON, TP		16,286	207	1	44	162	1	62	
GLOUCESTER, C	M	104,397	1,079	6	271	802	7	387	
GOULBOURN, TP		19,902	193	1	45	147	1	62	
KANATA, C		48,014	576	1	93	482	1	153	
NEPEAN, C	M	116,928	1,446	3	340	1,103	3	530	
OSGOODE, TP		15,845	206	2	45	159	3	67	
OTTAWA, C	M	321,955	5,668	6	1,397	4,265	6	1,935	
RIDEAU, TP		12,231	131	1	20	110	1	32	
ROCKCLIFFE PARK, VL		2,191	17	0	5	12	0	5	
VANIER, C		17,771	219	0	52	167	0	66	
PROVINCIAL HIGHWAY			1,282	9	282	991	10	478	
OTHER AREAS		0	283	0	53	230	0	74	
OTTAWA-CARLETON		**722,564**	**11,637**	**30**	**2,738**	**8,869**	**33**	**3,986**	**418,556**
INGERSOLL, T	M	9,955	102	1	19	82	3	25	
S WEST OXFORD, TP		8,378	141	0	33	108	0	52	
TILLSONBURG, T	M	13,523	177	1	46	130	1	71	
WOODSTOCK, C	M	32,347	512	0	113	399	0	176	
ZORRA, TP		8,107	69	1	19	49	2	28	
PROVINCIAL HIGHWAY			411	4	101	306	5	150	
OTHER AREAS		25,054	508	4	137	367	4	206	
OXFORD		**97,364**	**1,920**	**11**	**468**	**1,441**	**15**	**708**	**72,850**
MCDOUGALL, TP		2,177	22	0	5	17	0	9	
PERRY, TP		1,987	13	0	3	10	0	6	
PROVINCIAL HIGHWAY			603	3	150	450	3	272	
OTHER AREAS		29,101	268	0	45	223	0	71	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
PARRY SOUND		**33,265**	**906**	**3**	**203**	**700**	**3**	**358**	**34,952**
BRAMPTON, C		260,498	3,896	17	761	3,118	17	1,144	
CALEDON, T		39,837	862	7	199	656	7	344	
MISSISSAUGA, C		529,160	7,098	14	1,285	5,799	14	1,848	
PROVINCIAL HIGHWAY			2,697	11	464	2,222	12	739	
OTHER AREAS		0	283	0	21	262	0	30	
PEEL		**829,495**	**14,836**	**49**	**2,730**	**12,057**	**50**	**4,105**	**587,838**
ST. MARYS, T	M	5,776	61	0	21	40	0	22	
STRATFORD, C	M	28,002	487	0	105	382	0	158	
PROVINCIAL HIGHWAY			150	2	49	99	2	83	
OTHER AREAS		36,284	582	10	158	414	11	264	
PERTH		**70,062**	**1,280**	**12**	**333**	**935**	**13**	**527**	**50,365**
LAKEFIELD, VL	M	2,321	26	0	9	17	0	11	
PETERBOROUGH, C	M	68,748	925	3	318	604	3	470	
PROVINCIAL HIGHWAY			345	8	96	241	11	169	
OTHER AREAS		46,918	726	3	184	539	3	299	
PETERBOROUGH		**117,987**	**2,022**	**14**	**607**	**1,401**	**17**	**949**	**88,699**
CASSELMAN, VL		2,838	32	1	5	26	1	5	
EAST HAWKESBURY, TP		3,242	6	0	4	2	0	5	
HAWKESBURY, T	M	10,266	174	0	37	137	0	48	
RUSSELL, TP		11,652	52	0	14	38	0	19	
PROVINCIAL HIGHWAY			184	3	52	129	4	95	
OTHER AREAS		45,633	622	3	178	441	3	249	
PRESCOTT & RUSSELL		**73,631**	**1,070**	**7**	**290**	**773**	**8**	**421**	**62,365**
PROVINCIAL HIGHWAY			66	0	19	47	0	34	
OTHER AREAS		22,795	410	2	68	340	3	97	
PRINCE EDWARD		**22,795**	**476**	**2**	**87**	**387**	**3**	**131**	**18,970**
ATIKOKAN, TP	M	3,493	31	0	2	29	0	3	
FORT FRANCES, T	M	8,312	160	0	28	132	0	37	
PROVINCIAL HIGHWAY			234	2	44	188	2	67	
OTHER AREAS		6,392	83	1	23	59	1	38	
RAINY RIVER		**18,197**	**508**	**3**	**97**	**408**	**3**	**145**	**17,442**
ALICE & FRASER, TP		4,043	25	0	11	14	0	19	
ARNPRIOR, T		6,552	66	0	18	48	0	26	
DEEP RIVER, T	M	4,203	9	0	0	9	0	0	
HORTON, TP		2,443	10	0	5	5	0	6	
PEMBROKE, C	M	13,492	227	1	61	165	1	81	
PETAWAWA, T		15,075	45	0	14	31	0	28	
RENFREW, T	M	7,642	81	0	21	60	0	28	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
WESTMEATH, TP		2,584	7	0	1	6	0	1	
PROVINCIAL HIGHWAY			397	10	115	272	12	206	
OTHER AREAS		34,679	660	4	164	492	7	268	
RENFREW		**92,547**	**1,527**	**15**	**410**	**1,102**	**20**	**663**	**71,512**
BARRIE, C	M	78,965	1,730	3	333	1,394	3	486	
COLLINGWOOD, T	M	15,745	283	1	75	207	1	115	
ESSA, TP		15,904	100	0	24	76	0	36	
FLOS, TP		0	0	0	0	0	0	0	
INNISFIL, T	M	24,853	202	2	51	149	2	101	
MIDLAND, T	M	16,406	279	0	54	225	0	69	
ORILLIA, C	M	27,882	536	0	116	420	0	161	
TINY, TP		8,875	83	0	15	68	0	23	
WASAGA BEACH, T		9,710	143	0	45	98	0	72	
PROVINCIAL HIGHWAY			1,464	7	330	1,127	8	567	
OTHER AREAS		131,326	2,306	16	612	1,678	23	970	
SIMCOE		**329,666**	**7,126**	**29**	**1,655**	**5,442**	**37**	**2,600**	**259,063**
CORNWALL, C	M	46,651	814	1	198	615	1	299	
PROVINCIAL HIGHWAY			526	4	176	346	4	321	
OTHER AREAS		61,951	690	7	143	540	7	205	
STORMONT, DUNDAS & GLENGARRY		**108,602**	**2,030**	**12**	**517**	**1,501**	**12**	**825**	**75,899**
CAPREOL, T		3,620	20	0	7	13	0	12	
ESPANOLA, T	M	5,306	55	1	12	42	1	23	
NICKEL CENTRE, T		12,604	38	1	15	22	1	22	
ONAPING FALLS, T		5,183	10	0	3	7	0	3	
RAYSIDE-BALFOUR, T		15,224	87	1	25	61	1	37	
SUDBURY, C	M	91,056	1,585	2	443	1,140	3	628	
VALLEY EAST, T		22,959	109	0	47	62	0	75	
WALDEN, T		9,895	58	1	19	38	1	29	
PROVINCIAL HIGHWAY			688	8	200	480	10	330	
OTHER AREAS		11,588	395	1	113	281	1	158	
SUDBURY		**177,435**	**3,045**	**15**	**884**	**2,146**	**18**	**1,317**	**127,722**
GERALDTON, T		2,555	24	0	5	19	0	7	
LONGLAC, T		1,769	21	0	5	16	0	6	
MANITOUWADGE, TP		3,229	23	0	2	21	0	2	
MARATHON, T	M	4,648	30	0	4	26	0	4	
NIPIGON, TP		2,021	16	0	4	12	0	5	
SCHREIBER, TP		1,626	8	0	1	7	0	1	
TERRACE BAY, TP	M	2,189	9	0	0	9	0	0	
THUNDER BAY, C	M	115,419	1,435	4	595	836	4	832	
PROVINCIAL HIGHWAY			974	13	237	724	16	393	
OTHER AREAS		13,533	1,015	2	38	975	2	55	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Persons Injured	Motor Vehicle Registrations
THUNDER BAY		**146,989**	**3,555**	**19**	**891**	**2,645**	**22**	**1,305**	**114,411**
ENGLEHART, T		1,615	9	0	2	7	0	3	
HAILEYBURY, T		4,545	34	0	4	30	0	6	
KIRKLAND LAKE, T	M	10,098	97	0	14	83	0	16	
NEW LISKEARD, T	M	4,856	97	0	11	86	0	14	
PROVINCIAL HIGHWAY			325	3	92	23	3	150	
OTHER AREAS		11,967	106	0	20	293	0	27	
TIMISKAMING		**33,081**	**668**	**3**	**143**	**522**	**3**	**216**	**26,865**
TORONTO, C	M	2,262,100	56,793	80	16,186	40,527	86	23,397	
PROVINCIAL HIGHWAY			9,763	5	2,244	7,514	6	3,263	
OTHER AREAS		0	0	0	0	0	0	0	
TORONTO		**2,262,100**	**66,556**	**85**	**18,430**	**48,041**	**92**	**26,660**	**1,147,444**
BOBCAYGEON, VL		2,575	19	0	4	15	0	8	
ELDON, TP		2,887	11	0	2	9	0	5	
EMILY, TP		6,362	42	0	12	30	0	13	
FENELON, TP		5,593	35	0	11	24	0	16	
FENELON FALLS, VL		1,806	15	0	4	11	0	6	
LINDSAY, T	M	16,815	5	0	0	5	0	0	
MANVERS, TP		5,283	18	0	4	14	0	8	
MARIPOSA, TP		6,929	25	0	4	21	0	4	
SOMERVILLE, TP		2,066	19	0	3	16	0	6	
VERULAM, TP		4,108	14	1	3	10	1	7	
PROVINCIAL HIGHWAY			270	4	75	191	5	185	
OTHER AREAS		9,627	825	5	223	597	5	353	
VICTORIA		**64,051**	**1,298**	**10**	**345**	**943**	**11**	**611**	**55,425**
CAMBRIDGE, C		99,825	2,128	4	513	1,611	5	751	
KITCHENER, C		175,623	3,486	2	778	2,706	2	1,098	
NORTH DUMFRIES, TP		7,761	160	2	45	113	2	71	
WATERLOO, C		83,318	1,541	0	344	1,197	0	540	
WELLESLEY, TP		8,385	56	0	15	41	0	21	
WILMOT, TP		13,607	204	0	41	163	0	58	
WOOLWICH, TP		16,939	337	2	92	243	2	145	
PROVINCIAL HIGHWAY			947	2	205	740	2	336	
OTHER AREAS		0	153	0	26	127	0	48	
WATERLOO		**405,458**	**9,012**	**12**	**2,059**	**6,941**	**13**	**3,068**	**275,949**
ERIN, T		9,923	82	1	21	60	1	26	
GUELPH, C	M	92,130	1,330	2	569	759	2	880	
MINTO, T		7,120	53	0	14	39	0	19	
PROVINCIAL HIGHWAY			565	6	154	405	8	260	
OTHER AREAS		7,325	1,178	15	291	872	16	504	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
WESTMEATH, TP		2,584	7	0	1	6	0	1	
PROVINCIAL HIGHWAY			397	10	115	272	12	206	
OTHER AREAS		34,679	660	4	164	492	7	268	
RENFREW		**92,547**	**1,527**	**15**	**410**	**1,102**	**20**	**663**	**71,512**
BARRIE, C	M	78,965	1,730	3	333	1,394	3	486	
COLLINGWOOD, T	M	15,745	283	1	75	207	1	115	
ESSA, TP		15,904	100	0	24	76	0	36	
FLOS, TP		0	0	0	0	0	0	0	
INNISFIL, T	M	24,853	202	2	51	149	2	101	
MIDLAND, T	M	16,406	279	0	54	225	0	69	
ORILLIA, C	M	27,882	536	0	116	420	0	161	
TINY, TP		8,875	83	0	15	68	0	23	
WASAGA BEACH, T		9,710	143	0	45	98	0	72	
PROVINCIAL HIGHWAY			1,464	7	330	1,127	8	567	
OTHER AREAS		131,326	2,306	16	612	1,678	23	970	
SIMCOE		**329,666**	**7,126**	**29**	**1,655**	**5,442**	**37**	**2,600**	**259,063**
CORNWALL, C	M	46,651	814	1	198	615	1	299	
PROVINCIAL HIGHWAY			526	4	176	346	4	321	
OTHER AREAS		61,951	690	7	143	540	7	205	
STORMONT, DUNDAS & GLENGARRY		**108,602**	**2,030**	**12**	**517**	**1,501**	**12**	**825**	**75,899**
CAPREOL, T		3,620	20	0	7	13	0	12	
ESPANOLA, T	M	5,306	55	1	12	42	1	23	
NICKEL CENTRE, T		12,604	38	1	15	22	1	22	
ONAPING FALLS, T		5,183	10	0	3	7	0	3	
RAYSIDE-BALFOUR, T		15,224	87	1	25	61	1	37	
SUDBURY, C	M	91,056	1,585	2	443	1,140	3	628	
VALLEY EAST, T		22,959	109	0	47	62	0	75	
WALDEN, T		9,895	58	1	19	38	1	29	
PROVINCIAL HIGHWAY			688	8	200	480	10	330	
OTHER AREAS		11,588	395	1	113	281	1	158	
SUDBURY		**177,435**	**3,045**	**15**	**884**	**2,146**	**18**	**1,317**	**127,722**
GERALDTON, T		2,555	24	0	5	19	0	7	
LONGLAC, T		1,769	21	0	5	16	0	6	
MANITOUWADGE, TP		3,229	23	0	2	21	0	2	
MARATHON, T	M	4,648	30	0	4	26	0	4	
NIPIGON, TP		2,021	16	0	4	12	0	5	
SCHREIBER, TP		1,626	8	0	1	7	0	1	
TERRACE BAY, TP	M	2,189	9	0	0	9	0	0	
THUNDER BAY, C	M	115,419	1,435	4	595	836	4	832	
PROVINCIAL HIGHWAY			974	13	237	724	16	393	
OTHER AREAS		13,533	1,015	2	38	975	2	55	

Table 4.1 Continued

Location		Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
THUNDER BAY		**146,989**	**3,555**	**19**	**891**	**2,645**	**22**	**1,305**	**114,411**
ENGLEHART, T		1,615	9	0	2	7	0	3	
HAILEYBURY, T		4,545	34	0	4	30	0	6	
KIRKLAND LAKE, T	M	10,098	97	0	14	83	0	16	
NEW LISKEARD, T	M	4,856	97	0	11	86	0	14	
PROVINCIAL HIGHWAY			325	3	92	23	3	150	
OTHER AREAS		11,967	106	0	20	293	0	27	
TIMISKAMING		**33,081**	**668**	**3**	**143**	**522**	**3**	**216**	**26,865**
TORONTO, C.	M	2,262,100	56,793	80	16,186	40,527	86	23,397	
PROVINCIAL HIGHWAY			9,763	5	2,244	7,514	6	3,263	
OTHER AREAS		0	0	0	0	0	0	0	
TORONTO		**2,262,100**	**66,556**	**85**	**18,430**	**48,041**	**92**	**26,660**	**1,147,444**
BOBCAYGEON, VL		2,575	19	0	4	15	0	8	
ELDON, TP		2,887	11	0	2	9	0	5	
EMILY, TP		6,362	42	0	12	30	0	13	
FENELON, TP		5,593	35	0	11	24	0	16	
FENELON FALLS, VL		1,806	15	0	4	11	0	6	
LINDSAY, T	M	16,815	5	0	0	5	0	0	
MANVERS, TP		5,283	18	0	4	14	0	8	
MARIPOSA, TP		6,929	25	0	4	21	0	4	
SOMERVILLE, TP		2,066	19	0	3	16	0	6	
VERULAM, TP		4,108	14	1	3	10	1	7	
PROVINCIAL HIGHWAY			270	4	75	191	5	185	
OTHER AREAS		9,627	825	5	223	597	5	353	
VICTORIA		**84,851**	**1,298**	**10**	**345**	**943**	**11**	**611**	**55,425**
CAMBRIDGE, C		99,825	2,128	4	513	1,611	5	751	
KITCHENER, C		175,623	3,486	2	778	2,706	2	1,098	
NORTH DUMFRIES, TP		7,761	160	2	45	113	2	71	
WATERLOO, C		83,318	1,541	0	344	1,197	0	540	
WELLESLEY, TP		8,385	56	0	15	41	0	21	
WILMOT, TP		13,607	204	0	41	163	0	58	
WOOLWICH, TP		16,939	337	2	92	243	2	145	
PROVINCIAL HIGHWAY			947	2	205	740	2	336	
OTHER AREAS		0	153	0	26	127	0	48	
WATERLOO		**405,458**	**9,012**	**12**	**2,059**	**6,941**	**13**	**3,068**	**275,949**
ERIN, T		9,923	82	1	21	60	1	26	
GUELPH, C	M	92,130	1,330	2	569	759	2	880	
MINTO, T		7,120	53	0	14	39	0	19	
PROVINCIAL HIGHWAY			565	6	154	405	8	260	
OTHER AREAS		7,325	1,178	15	291	872	16	504	

Table 4.1 **Continued**

Location	Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
WELLINGTON	**162,017**	**3,208**	**24**	**1,049**	**2,135**	**27**	**1,689**	**124,500**
AURORA, T	34,411	400	1	72	327	1	101	
GEORGINA, T	32,652	373	1	97	275	1	151	
E GWILLIMBURY, T	18,518	282	6	79	197	7	143	
KING, TP	17,686	329	1	72	256	2	123	
MARKHAM, T	162,527	2,794	5	500	2,289	6	746	
NEWMARKET, T	55,079	869	2	175	692	2	271	
RICHMOND HILL, T	93,819	1,626	1	312	1,313	1	458	
VAUGHAN, C	129,019	2,878	10	547	2,321	12	836	
WHITCHURCH STOUFFVILLE, T	18,642	241	3	52	186	5	88	
PROVINCIAL HIGHWAY		1,854	9	377	1,468	9	606	
OTHER AREAS	0	248	1	52	195	2	81	
YORK	**562,353**	**11,894**	**40**	**2,335**	**9,519**	**48**	**3,604**	**449,861**

Legend		Other Areas - Jurisdictions with less than 1,500 population and/or experienced amalgamations/name change after 1992
T	Town	
C	City	
VL	Village	
TP	Township	
M	Muncipal Police Force	

*** Sources: Ministry of Municipal Affairs and Housing and Ontario Municipal Directory 1999**

Population data in this table refers to persons residing in a municipality on a permanent basis.

** The number is adjusted to include vehicles that are not associated with a county or region in Ontario and by commercial vehicles that are simultaneously registered in Ontario and other jurisdictions.

Municipalities that experienced amalgamation, annexation or name change after 1992 are included in "other areas".

Table 4.1 is not comparable to previous years.

Table 4.1 **Continued**

Location	Estimated Population (1999)*	Class of Collision Total Collisions	Fatal	Personal Injury	Property Damage	Persons Killed	Injured	Motor Vehicle Registrations
WELLINGTON	**162,017**	**3,208**	**24**	**1,049**	**2,135**	**27**	**1,689**	**124,500**
AURORA, T	34,411	400	1	72	327	1	101	
GEORGINA, T	32,652	373	1	97	275	1	151	
E GWILLIMBURY, T	18,518	282	6	79	197	7	143	
KING, TP	17,686	329	1	72	256	2	123	
MARKHAM, T	162,527	2,794	5	500	2,289	6	746	
NEWMARKET, T	55,079	869	2	175	692	2	271	
RICHMOND HILL, T	93,819	1,626	1	312	1,313	1	458	
VAUGHAN, C	129,019	2,878	10	547	2,321	12	836	
WHITCHURCH STOUFFVILLE, T	18,642	241	3	52	186	5	88	
PROVINCIAL HIGHWAY		1,854	9	377	1,468	9	606	
OTHER AREAS	0	248	1	52	195	2	81	
YORK	**562,353**	**11,894**	**40**	**2,335**	**9,519**	**48**	**3,604**	**449,861**

Legend		Other Areas - Jurisdictions with less than 1,500 population and/or experienced amalgamations/name change after 1992
T	Town	
C	City	
VL	Village	
TP	Township	
M	Muncipal Police Force	

*** Sources: Ministry of Municipal Affairs and Housing and Ontario Municipal Directory 1999**

Population data in this table refers to persons residing in a municipality on a permanent basis.

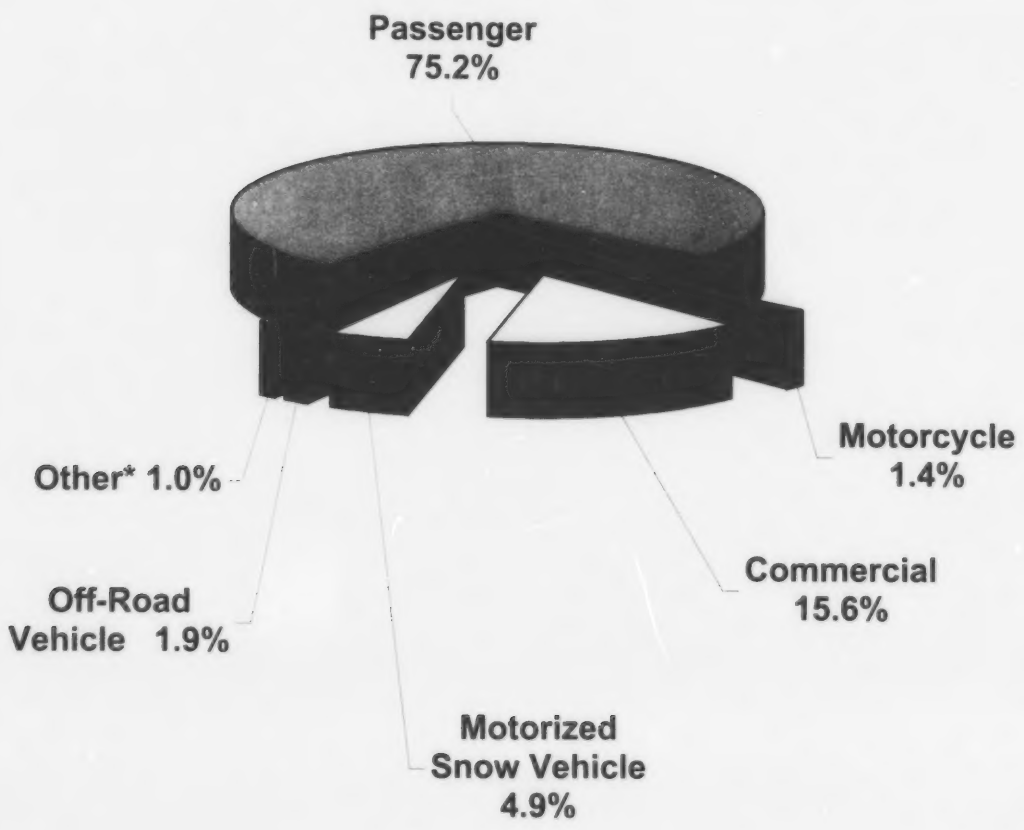
** The number is adjusted to include vehicles that are not associated with a county or region in Ontario and by commercial vehicles that are simultaneously registered in Ontario and other jurisdictions.

Municipalities that experienced amalgamation, annexation or name change after 1992 are included in "other areas".

Table 4.1 is not comparable to previous years.

5 The Vehicle

Vehicle Population by Vehicle Class in Ontario, 1999



*Other includes bus, school bus, road building machinery, permanent apparatus and farm trucks.

** Commercial excludes Single Application Vehicle Registration (SAVR - 30,161 vehicles).

5a. Vehicles in Collisions

Table 5.1 **Vehicles Involved in Collisions 1999**

Type of Vehicle*	Number of Vehicles Involved in Collisions			Total
	Fatal	Personal Injury	Property Damage	
Passenger Car	776	75,139	209,799	**285,714**
Passenger Van	134	11,289	31,902	**43,325**
Motorcycle & Moped	49	1,302	484	**1,835**
Pick-up Truck	163	8,637	29,162	**37,962**
Delivery Van	24	1,987	6,790	**8,801**
Tow Truck	5	165	513	**683**
Truck	174	2,914	13,162	**16,250**
Bus	6	565	1,696	**2,267**
School Vehicle	8	202	878	**1,088**
Off-Road Vehicle	2	30	77	**109**
Snowmobile	2	42	42	**86**
Snow Plow	0	29	222	**251**
Emergency Vehicle	6	444	1,266	**1,716**
Farm Vehicle	3	57	144	**204**
Construction Equipment	2	45	237	**284**
Motor Home	0	28	127	**155**
Railway Train	11	35	38	**84**
Street Car	0	82	314	**396**
Bicycle	18	2,890	464	**3,372**
Other	0	1	1	**2**
Other Non-Motor Vehicle	0	41	126	**167**
Unknown	4	1,112	11,553	**12,669**
Total	**1,387**	**107,036**	**308,997**	**417,420**

*Categories in this table are not comparable to years prior 1998.

Table 5.2 **Condition of Vehicle by Class of Collision 1999**

Condition of Vehicle	Class of Collision			Total
		Personal	Property	
	Fatal	Injury	Damage	
No Apparent Defect	1,287	101,591	273,115	**375,993**
Service Brakes Defective	5	89	199	**293**
Steering Defective	0	19	28	**47**
Tire Puncture or Blow Out	0	37	83	**120**
Tire Tread Insufficient	1	37	34	**72**
Headlamps Defective	0	11	8	**19**
Other Lamps or Reflectors Defective	2	17	58	**77**
Engine Controls Defective	1	15	43	**59**
Wheels or Suspension Defective	0	21	58	**79**
Vision Obscured	0	7	22	**29**
Trailer Hitch Defective	0	0	6	**6**
Other Defects	19	654	5,163	**5,836**
Unknown	72	4,538	30,180	**34,790**
Total	**1,387**	**107,036**	**308,997**	**417,420**

Table 5.3 **Model Year of Vehicle by Class of Collision 1999**

Model Year of Vehicle	Class of Collision			Total
		Personal	Property	
	Fatal	Injury	Damage	
2000	4	680	2,474	**3,158**
1999	103	6,829	21,432	**28,364**
1998	124	8,751	26,583	**35,458**
1997	92	7,343	22,250	**29,685**
1996	71	5,672	17,000	**22,743**
1995	111	7,150	21,055	**28,316**
1994	99	6,461	19,064	**25,624**
1993	87	6,694	18,983	**25,764**
1992	82	6,950	19,701	**26,733**
1991	75	6,834	18,672	**25,581**
1990 and earlier	502	38,575	102,080	**141,157**
Unknown	37	5,097	19,703	**24,837**
Total	**1,387**	**107,036**	**308,997**	**417,420**

Table 5.4 Insurance Status of Vehicle by Class of Collision 1999

Insurance	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Insured	1,277	99,702	283,104	**384,083**
Not Insured	31	1,896	1,732	**3,659**
Unknown	79	5,438	24,161	**29,678**
Total	**1,387**	**107,036**	**308,997**	**417,420**

5b. Putting the Vehicle in Context

Table 5.5 Vehicle Population by Type of Vehicle 1999

Vehicle Class	
Passenger	5,525,687
Motorcycle	103,413
Moped	3,006
Commercial*	1,149,621
Bus	19,367
School Bus	8,574
Motorized Snow Vehicle	364,200
Off-Road Vehicle	136,832
Road Building Machinery	642
Permanent Apparatus	3,755
Farm Trucks	36,453
Total	**7,351,550**

* Excludes Single Application Vehicle Registrations (SAVR - 30161 vehicles).

Table 5.6 Selected Types of Vehicles by Model Year 1999

Vehicle Class	Model Years											
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990+	Total
Passenger	185,711	434,420	444,090	379,771	302,523	366,598	341,218	356,138	379,843	355,427	1,979,948	**5,525,687**
Motorcycle	764	6,796	4,962	3,992	3,296	2,557	2,423	2,641	2,179	2,022	71,781	**103,413**
Moped	29	37	9	10	9	3	10	8	5	10	2,876	**3,006**
Commercial*	35,119	93,607	92,712	72,171	54,746	71,222	66,255	53,189	54,157	54,425	542,868	**1,190,471**
Bus	530	2,329	2,049	1,626	1,972	1,901	1,337	1,558	1,974	2,054	10,611	**27,941**
Motorized Snow Vehicle	8,905	13,762	17,464	16,418	14,814	13,984	13,928	11,407	8,906	12,318	232,294	**364,200**
Off-Road Vehicle	4,135	8,872	6,570	4,737	5,484	5,319	4,369	5,250	4,949	4,960	82,187	**136,832**
Total	**235,193**	**559,823**	**567,856**	**478,725**	**382,844**	**461,584**	**429,540**	**430,191**	**452,013**	**431,216**	**2,922,565**	**7,351,550**

* Excludes Single Application Vehicle Registrations (SAVR - 30,161 vehicles).

Table 5.7 Vehicle Damage Level 1999

Damage	Class of Collision			Total
		Personal	Property	
	Fatal	Injury	Damage	
None	81	10,137	19,656	**29,874**
Light	123	30,887	127,554	**158,564**
Moderate	167	27,781	96,374	**124,322**
Severe	205	22,803	28,862	**51,870**
Demolished	773	10,883	5,439	**17,095**
Other	38	4,545	31,112	**35,695**
Total	**1,387**	**107,036**	**308,997**	**417,420**

Vehicle Damage

None No visible damage.

Light Slight or superficial damage. Includes scratches, small dents, and minor cracks in glass, that do not affect safety or performance of vehicle.

Moderate Unsafe conditions result from damage. Vehicle must be repaired to make its condition meet the requirements of the law. Vehicle can be driven off road or a limited distance, but doing so would be unsafe.

Severe Vehicle cannot be driven. Requires towing. Would normally be repaired.

Demolished Vehicle damaged to the extent that repairs would not be acceptable.

6 Vehicles of Special Interest

6a. Motorcycles

Table 6.1 Motorcyclists* Killed and Injured 1995-1999

Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
1995	37	1,309	4	289
1996	27	1,006	2	244
1997	36	993	2	255
1998	32	1,068	3	263
1999	38	1,115	3	226

* Excludes moped drivers and passengers.

Table 6.2 Selected Factors Relevant to Fatal Motorcycle Collisions 1999

Factors (not mutually exclusive)	%
Unlicensed Motorcycle Drivers	4
Under 25 Years Old	36
Alcohol Used	
Ability Impaired Alcohol > .08	16
Had Been Drinking	7
Unknown	16
Helmet Not Worn (Fatalities)	4
Motorcycle Driver Error	
Speed Too Fast/Lost Control	58
Other Error	7
Single Vehicle Collisions	48
Day/Night	50/50
Weekend	43

6b. School Vehicles

Table 6.3 Pupils Transported Daily, Total Collisions and Injury Rate per 100,000 Pupils - School Years 1994/95-1998/99

School Year	Pupils Transported Daily	Total Number of Collisions	Injury Rate per 100,000 Pupils	
			Fatal	Non-Fatal
1994/95	816,273	1,018	0.1	21
1995/96	Not Available	1,091	Not Available	Not Available
1996/97	Not Available	1,046	Not Available	Not Available
1997/98	877,000*	835	Not Available	Not Available
1998/99	Not Available	903	Not Available	Not Available

* Estimated number

Table 6.4 School Vehicle Type by Nature of Collision 1998/99

School Vehicle Type	Nature of Collision				Total Number of Collisions	Five - Year Total (1994/95 - 1998/99)
	Fatal	Pupil Injury	Non-Pupil Injury	Property Damage		
School Bus	6	63	82	626	777	4,262
School Van	0	8	7	35	50	404
Other School Vehicles	1	2	6	67	76	227
Total	**7**	**73**	**95**	**728**	**903**	**4,893**

Table 6.5 Pupil Injury by Collision Event and Vehicle Type 1998/99 (Number of Persons)

School Vehicle Type	Collision Event						Total		Five - Year Total (1994/95 - 1998/99)	
	Crossing Road		Within School Vehicle		Other					
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
School Bus	1	0	1	86	1	7	3	93	6	589
School Van	0	0	0	7	0	0	0	7	0	41
Other School Vehicles	0	0	0	0	0	0	0	0	0	7
Total	1	0	1	93	1	7	3	100	6	637

6c. Trucks

Table 6.6 Number of Trucks Involved in Collisions 1995-1999

Year	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
1995	365	12,647	40,487	**53,499**
1996	320	12,377	39,595	**52,292**
1997	342	12,062	38,519	**50,923**
1998	278	11,292	33,967	**45,537**
1999	314	11,470	36,889	**48,673**
Total	**1,619**	**59,848**	**189,457**	**250,924**

Table 6.7 Driver Licence Class Required by Class of Truck Collision - Number of Trucks 1999**

Driver Licence Required	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
G	189	9,595	29,506	**39,290**
D	23	537	2,282	**2,842**
A*	102	1,338	5,101	**6,541**
Total	**314**	**11,470**	**36,889**	**48,673**

* Tractor/trailer combination only.
** Includes vehicles registered under the SAVR - 30161 vehicles

Table 6.8 Driver Licence Class Required - Trucks, Registered Trucks and Collision Rate 1999

Driver Licence Required	Trucks in Collisions	Registered Trucks	Truck Involvement*
G	39,290	1,030,670	3.8
D	2,842	50,574	5.6
A**	6,541	139,388 ***	4.7
Total	**48,673**	**1,220,632**	4.0

* Number of trucks in collisions per 100 registered trucks.
** Tractor/trailer combination only.
*** Includes vehicles registered under the SAVR system (30161 vehicles).

Table 6.9 Selected Factors Relevant to Fatal Truck Collisions 1999

Factors in Fatal Collisions:	Driver Licence Required		
	Class G	Class D	Class A
Drivers			
Alcohol Involved	17.5%	0.0%	1.0%
Driving Properly	41.8%	69.6%	60.8%
Collisions			
Single Vehicle	33.9%	8.7%	6.9%
Urban Area	29.1%	60.9%	14.7%
Daylight	66.1%	82.6%	64.7%
Vehicles			
Vehicle Defect Present*	3.7%	17.4%	2.0%

* Excludes unknown category

Class G trucks refers to trucks that have a gross weight less than 11,000 kilograms e.g. pickups.
Data for truck/trailer combinations requiring Class "A" driver licence are not reported in the Vehicle Registration System (VRS).

6d. Off-Road Vehicles

For the purposes of this publication, off-road vehicles include dune buggies, off-road motorcycles (dirt bikes), and three-and four-wheeled all-terrain vehicles. Off-road vehicles were first required to be registered on June 1, 1984 (one- time registration requirement).

Table 6.10 Collision Location by Off-Road Vehicle Drivers Killed and Injured 1995-1999

Location	Killed					Injured				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
On Highway	0	0	1	1	2	23	20	19	24	14
Off Highway	6	5	3	2	3	74	46	41	49	44
Total	**6**	**5**	**4**	**3**	**5**	**97**	**66**	**60**	**73**	**58**

Table 6.11 Collision Location by Off-Road Vehicle Passengers Killed and Injured 1995-1999

Location	Killed					Injured				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
On Highway	0	0	0	0	0	5	6	15	10	9
Off Highway	0	0	1	0	0	23	9	19	23	17
Total	**0**	**0**	**1**	**0**	**0**	**28**	**15**	**34**	**33**	**26**

Table 6.12 Registered Off-Road Vehicles 1995-1999

Year	Vehicles Registered
1995	106,677
1996	111,344
1997	117,438
1998	125,498
1999	136,832

Table 6.13 Selected Factors Relevant to All Off-Road Vehicle Collisions 1999

Factors	%
Drivers Under 25 Years of Age	45
Alcohol Used	27
Speeding	30
Helmet Not Worn	55
Daytime	78
Two-Wheeled	15
Three-Wheeled	14
Four-Wheeled	72

6e. Motorized Snow Vehicles

Table 6.14 Collision Location by Motorized Snow Vehicle* Drivers Killed and Injured - Riding Seasons 1994/95-1998/99

Location	Killed					Injured				
	94/95	95/96	96/97	97/98	98/99	94/95	95/96	96/97	97/98	98/99
On Highway	6	3	2	2	2	36	73	72	22	41
Off Highway	22	25	19	31	20	243	304	259	199	247
Total	**28**	**28**	**21**	**33**	**22**	**279**	**377**	**331**	**221**	**288**
% On Highway	**21**	**11**	**10**	**6**	**9**	**13**	**19**	**22**	**10**	**14**

Table 6.15 Collision Location by Motorized Snow Vehicle* Passengers Killed and Injured - Riding Seasons 1994/95-1998/99

Location	Killed					Injured				
	94/95	95/96	96/97	97/98	98/99	94/95	95/96	96/97	97/98	98/99
On Highway	0	0	3	0	0	17	33	20	14	14
Off Highway	2	2	2	2	3	62	103	61	69	81
Total	**2**	**2**	**5**	**2**	**3**	**79**	**136**	**81**	**83**	**95**

Table 6.16 Registered Motorized Snow Vehicles 1995-1999

Year	Registered Motorized Snow Vehicles
1995	339,803
1996	361,596
1997	362,561
1998	363,737
1999	364,200

Table 6.17 All Motorized Snow Vehicle Collisions 1998/99

Factors	%
Unlicensed Operators	6
Rider Error, Speed too Fast	37
Alcohol Used	18
Surface Condition: Icy or Packed Snow	31

* The numbers in these tables are captured under the Motorized Snow Vehicles Act (MVSA) and the Highway Traffic Act (HTA), therefore, they are not comparable with the numbers in Tables 2.2 and 2.3, which are HTA reportable collisions only.

6f. Bicycles

Only collisions involving a bicycle and a moving motor vehicle or a streetcar are required to be reported. These tables do not include bicycle only, bicycle/bicycle, or bicycle/pedestrian collisions.

Table 6.18 Bicyclists Killed and Injured 1995-1999

	Drivers		Passengers	
Year	Killed	Injured	Killed	Injured
1995	19	2,983	0	105
1996	20	2,863	0	109
1997	22	2,997	1	101
1998	36	2,994	0	136
1999	17	2,702	0	136

Table 6.20 Selected Factors Relevant to All Bicycle Collisions 1999

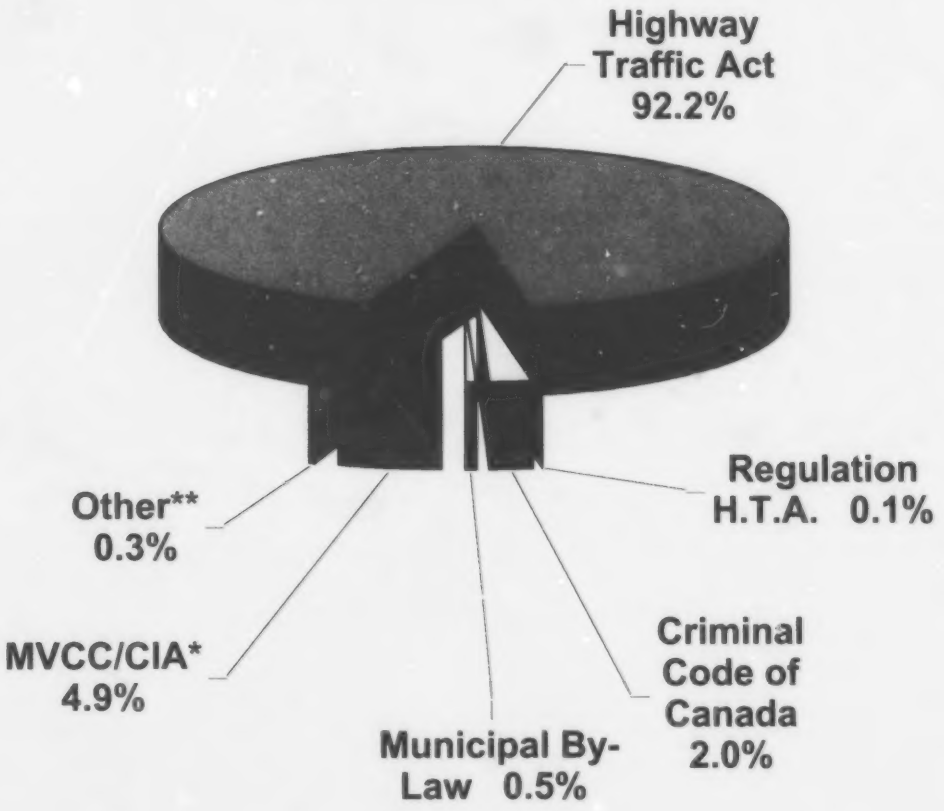
Factors	%
Driving Properly (Bicyclist)	40
Driving Properly (Motor Vehicle Driver)	49
Intersection Related	65
Going Ahead (Bicyclist)	83
Alcohol Related (Bicyclist)	4
No Apparent Vehicle Defect (Bicycle)	88
Clear Visibility	93
Weekend	19

Table 6.19 Age of Bicyclists Involved in Collisions by Light Condition 1999

Light	Age Groups						
Condition	0 - 5	6 - 15	16 - 30	31 - 60	61+	UK	Total
Daylight	267	753	787	798	111	52	**2,768**
Dawn	1	1	4	11	2	1	**20**
Dusk	20	34	40	32	7	2	**135**
Dark	33	57	172	170	6	11	**449**
Total	**321**	**845**	**1,003**	**1,011**	**126**	**66**	**3,372**

7 Conviction, Offence and Suspension Data

Per Cent of Motor Vehicle Convictions in Ontario, 1999



* Motor Vehicle Collision Claim / Compulsory Insurance Act
** Other includes Motorized Snow Vehicles Act and Off-Road Vehicles Act

7a. Conviction Data

Table 7.1 Summary of Motor Vehicle Related Convictions 1999

Convictions*	Number
Highway Traffic Act	952,448
Regulations under the H.T.A	614
Criminal Code of Canada**	20,896
Municipal By-Law	5,559
Motor Vehicle Collision Claim/Compulsory Insurance Act	50,641
Motorized Snow Vehicles Act	1,883
Off-Road Vehicles Act	974
Other	1
Total	**1,033,016**

* Includes manually recorded convictions.

** This figure does not include 592 convictions for young offenders under the Criminal Code.

Table 7.2 Motor Vehicle Convictions Related to the Highway Traffic Act 1999

Convictions	Number
Equipment	17,471
Administrative*	103,394
Seat Belt (Driver & Passenger)**	54,469
Other Non-Pointable Convictions ***	12,804
Speeding	597,870
Other Pointable Convictions (2 - 4 pts)	122,185
Other Pointable Convictions (5 - 7 pts)	8,232
Driving While Suspended	10,728
Total	**927,153**

* Non-moving, weight, vehicle registration, licence renewal, etc..

** Failure to wear seat belt convictions registered against passengers over 16 are no longer included.

*** Now includes some out-of-province convictions.

Table 7.3 Motor Vehicle Convictions Related to the Criminal Code 1999*

Convictions	Number
Alcohol Related**	17,089
Criminal Negligence	34
Fail to Remain at Collision	558
Driving While Disqualified	2,142
Dangerous Driving	1,073
Motor Manslaughter	0
Total	**20,896**

* Does not include 592 convictions for young offenders.

** Includes some out-of-province convictions.

7b. Offence Data

Table 7.4 Number of Drivers* Convicted of Criminal Code of Canada Offences, During the Specified Years

Conviction Type	1994	1995	1996	1997	1998
Criminal Negligence	39	37	33	26	24
Fail to Remain	794	724	653	534	418
Dangerous Driving	1,211	1,188	1,096	984	1,065
Impaired Driving	13,446	12,657	12,180	10,087	9,147
Blood/Alcohol over 80 mg%	9,086	9,061	8,901	7,715	6,899
Fail to Provide Breath Sample	1,558	1,565	1,518	1,291	1,190
Driving While Disqualified	2,694	2,466	2,641	2,292	2,227
Total	**28,828**	**27,698**	**27,022**	**22,929**	**20,970**

* The same driver can be represented in this table more than once.
As of March 31, 2000, there were 15,111 Criminal Code offences recorded for 1999. The 1999 breakdown will be updated in the 2000 annual report to accommodate the lag time in the recording of offences (offences are only recorded upon conviction).

Table 7.5 Adminstrative Driver License Suspension
Monthly Suspensions Issued 1999*

Suspensions	1996	1997	1998	1999
January	-	1,310	1,337	1,352
February	-	1,595	1,471	1,567
March	-	1,898	1,608	1,664
April	-	1,810	1,681	1,592
May	-	2,068	1,801	1,763
June	-	1,978	1,665	1,531
July	-	1,887	1,665	1,720
August	-	1,450	1,750	1,660
September	-	1,679	1,609	1,570
October	-	1,747	1,663	1,839
November	-	1,769	1,617	1,686
December	2,013	1,820	1,810	1,760
Total	**2,013**	**21,011**	**19,677**	**19,704**

* The Administrative Driver's Licence Suspension (ADLS) started in Ontario on November 29, 1996. The first complete month of suspensions shown in this table is, therefore, December, 1996.

From August 5th to 15th, 1997, ADLS suspensions were not issued due to cessation in ADLS.

Re-issuing of suspensions resumed on August 15, 1997.

See Appendix for details on the ADLS.

Table 7.4 has been revised to report the number of drivers that committed a specific Criminal Code Offence (CCC) in the specified year. This table is not comparable to Table 7.4 from earlier annual reports.

7c. Suspension Data

Table 7.6 Demerit Point Suspensions by Driver Age 1999

Driver Age	Demerit Point Suspensions				
		Novice First	Novice Second	Regular First	Regular Second
	Probationary	Accumulation	Accumulation	Accumulation	Accumulation
16	0	0	0	0	0
17	0	40	0	0	0
18	0	205	3	0	0
19	0	493	22	6	0
20-24	39	1,680	142	337	8
25-34	56	477	54	624	25
35-44	17	150	16	281	15
45-54	1	36	1	111	8
55-64	0	10	0	43	1
65-74	0	3	0	4	0
75 +	0	0	0	3	0
Total	**113**	**3,096**	**238**	**1,409**	**57**

Since 1994, novice drivers have been under the new Graduated Licensing System. These drivers are subject to escalating actions, from a warning letter at 2 to 5 points, an interview at 6 to 8 points and a 60-day suspension for a first accumulation of 9 points. After a first suspension, the points are reduced to 4 and if they attain 9 points again, the subsequent suspension is 6 months.
Drivers who have obtained a full Class G licence are suspended for 30 days on the first accumulation of 15 demerit points and are suspended for 6 months on the second accumulation of 15 points within 2 years.

Until 1994, newly licensed drivers were covered by the probationary licence system until they had successfully completed two one-year periods of suspension-free driving. Probationary drivers were suspended for 30 days after accumulating 6 or more demerit points. The probationary licensing system ended on March 31, 1994. Drivers were grandfathered into the new Graduated Licensing System.

8 Appendix

8a. Glossary

Ability Impaired-Alcohol:
Driving while one's ability is impaired by alcohol or driving with a blood alcohol concentration exceeding 80 milligrams in 100 millilitres of blood.

Administrative Driver's Licence Suspension (ADLS):
This program, designed to reduce drinking and driving, started November 29, 1996. Under this program, provincial law permits the immediate suspension of a driver's licence for 90 days upon evidence gathered by a police officer that the driver (a) was shown to have a concentration of alcohol in excess of 80 milligrams per 100 millilitres of blood or (b) the driver failed or refused to provide a breath or blood sample.

Alcohol Involved:
This category includes both drivers reported as ability impaired by alcohol and drivers reported as "had been drinking".

Class G1 Driver's Licence:
A holder of a Class G1 driver's licence:

- must have a zero blood alcohol content while driving.
- must have only one passenger in the front seat. That person, the accompanying driver, must be a fully licensed driver (Class A, B, C, D, E, F and G) with at least four years driving experience. That person's blood alcohol content must be less than .05.
- unless accompanied by a licensed driving instructor, must not drive on Ontario's "400-series" highways or on high speed expressways such as the Queen Elizabeth Way, the Don Valley Parkway, E.C. Row Expressway and the Conestoga Parkway.
- must limit the number of back seat passengers they carry to the number of seat belts in the back seats of the vehicle.
- must not drive between the hours of midnight and 5 am.
- may drive Class G vehicle only.

Level One lasts 12 months, but that time can be reduced to eight months by completing an approved driver education course. For information about approved courses, contact any Ministry of Transportation licensing office. At the end of this level, drivers must pass a road test before proceeding to Level Two.

Class G2 Driver's Licence:
A holder of a Class G2 driver's licence:

- must have a zero blood alcohol content while driving.
- is allowed to drive any motor vehicle that requires a Class G driver's licence (e.g. an automobile) on the road.
- must limit the number of back seat passengers they carry to the number of seat belts in the back seats of the vehicle.

Level Two lasts 12 months. After completing this level, drivers will be eligible to take a comprehensive test to qualify for full licence privileges.

Class M1 Motorcycle Driver's Licence:
A holder of a Class M1 motorcycle driver's licence:

- allows the holder to operate a motorcycle for the purposes of training.
- must have a zero blood alcohol content while driving.
- is only allowed to drive during daylight hours (one-half hour before sunrise to one-half hour after sunset).
- is only allowed to drive on roads with speed limits of 80 km/h or less, except where there is no other route you can drive. You may drive on highways 11, 17, 61, 69, 71, 101, 102, 144, and 655.
- may not carry passengers.

Level One lasts at least 60 days, and the licence is valid for 90 days. Level One drivers must pass a motorcycle road test before proceeding to Level Two. Alternatively, during Level One they may take an approved motorcycle safety course that includes a road test, instead of the ministry road test.

Class M2 Motorcycle Driver's Licence:
A holder of a Class M2 motorcycle driver's licence:

- must have a zero blood alcohol content while driving.

After completing Level Two, drivers will be eligible to take a comprehensive test to qualify for full licence privileges.

Conviction:
Registered when a person pleads guilty to, or is found guilty of, an offence related to a motor vehicle under any Act of the Ontario Legislature or its accompanying regulations, under the Parliament of Canada or any accompanying order, or under any municipal bylaw.

Driver:
Unless specified otherwise, any person, whether licensed or not, considered to be in care and control of a vehicle at the time of a collision.

Had Been Drinking:
Driving after having drunk an amount of alcohol not considered sufficient to be legally impaired or with a measured blood alcohol count of greater than zero but less than 80 milligrams per 100 millilitres of blood. Blood alcohol concentration between .05 and .08 results in a 12-hour suspension.

Highway:
A common and public highway, street, avenue, etc., any part of which is intended for public use or used by the general public for the passage of vehicles and including the area between the property lines.

Kilometres Travelled:
Vehicle fleet mileage is estimated on the basis of taxed gasoline and motor fuel sales. Total litres sold are converted to kilometres traveled based on a conversion factor of 22.0 kilometres per gallon.

Major Injury:
A non-fatal injury severe enough to require that the injured person be admitted to hospital, even if for observation only.

Minimal Injury:
A non-fatal injury, including minor abrasions and bruises, which does not necessitate the injured person going to a hospital.

Minor Injury:
A non-fatal injury requiring medical treatment at a hospital emergency room, but not requiring hospitalization of the involved person.

Motor Vehicle Collision:
Any incident in which bodily injury or damage to property is sustained as a result of the movement of a motor vehicle or of its load while a motor vehicle is in motion.

Off-Highway Collisions:
An off-highway collision involving any of the motorized vehicles which are covered by legislation under the Highway Traffic Act, the Motorized Snow Vehicles Act, and the Off-Road Vehicles Act.

On-Highway Collisions:
A motor vehicle collision which occurs on the highway between the property lines.

Pedestrian:
Any person not riding in or on a vehicle involved in a motor vehicle collision.

Fatal Collision:
A motor vehicle collision in which at least one person sustains bodily injuries resulting in death. Prior to January 1, 1982, fatal collision statistics included deaths attributed to accidental injuries up to one year after the collision. Since that date, only deaths from injuries within thirty days of the collision have been included.

Personal Injury Collision:
A motor vehicle collision in which at least one person involved sustains bodily injuries not resulting in death.

Property Damage Collision:
A motor vehicle collision in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property* including damage to the motor vehicle or its load.

Reportable Collision:
Any collision involving injury, or damage to private property in excess of a monetary value prescribed by regulation.*

Self-Reporting of a Collision:
Self-reporting of a collision. Under a new section of the Highway Traffic Act [s.199 (1.1)], when one is in a collision in which there is only property damage (no injury or death, and, among other conditions, no criminal activities such as impaired driving) the involved person(s) may report the collision immediately by proceeding with one's vehicle to a Collision Reporting Centre. Self-reporting of a collison was introduced on January 1, 1997.

Suspension:
Withdrawal of a drivers' privilege to operate a motor vehicle for a prescribed period of time.

* The minimum reportable level for property damage only collisions rose from $200 to $400 on January 1, 1978, and rose again to $700 on January 1, 1985. As of January 1,1998, the minimum reportable level for property damage only collision is $ 1,000.

8b. Acknowledgements

The Ministry of Transportation would like to acknowledge the following for their assistance:

Office of the Chief Coroner
Ministry of the Solicitor General

Revenue Control Unit
Motor Fuels and Tobacco Tax Branch
Ministry of Finance

Knowledge Management Unit
Information Planning and Evaluation Branch
Ministry of Health and Long Term Care

Information Planning & Court Statistics
Program Development Branch
Ministry of the Attorney General

Ministry of Education

Ministry of Municipal Affairs and Housing